

Data Path : Z:\HPCHEM1\BNA N\Data\BN022718\
 Data File : BN000181.D
 Acq On : 27 Feb 2018 09:16
 Operator : JU/SJ
 Sample : SSTDICC0.1
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Quant Time: Feb 27 11:41:00 2018
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BN022718.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Feb 27 11:40:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.460	152	6042	0.40	ng	0.00
7) Naphthalene-d8	11.287	136	22293	0.40	ng	0.00
13) Acenaphthene-d10	15.055	164	11048	0.40	ng	0.00
19) Phenanthrene-d10	17.776	188	25445	0.40	ng	0.00
27) Chrysene-d12	21.896	240	20732	0.40	ng	0.00
34) Perylene-d12	24.371	264	16932	0.40	ng	0.00

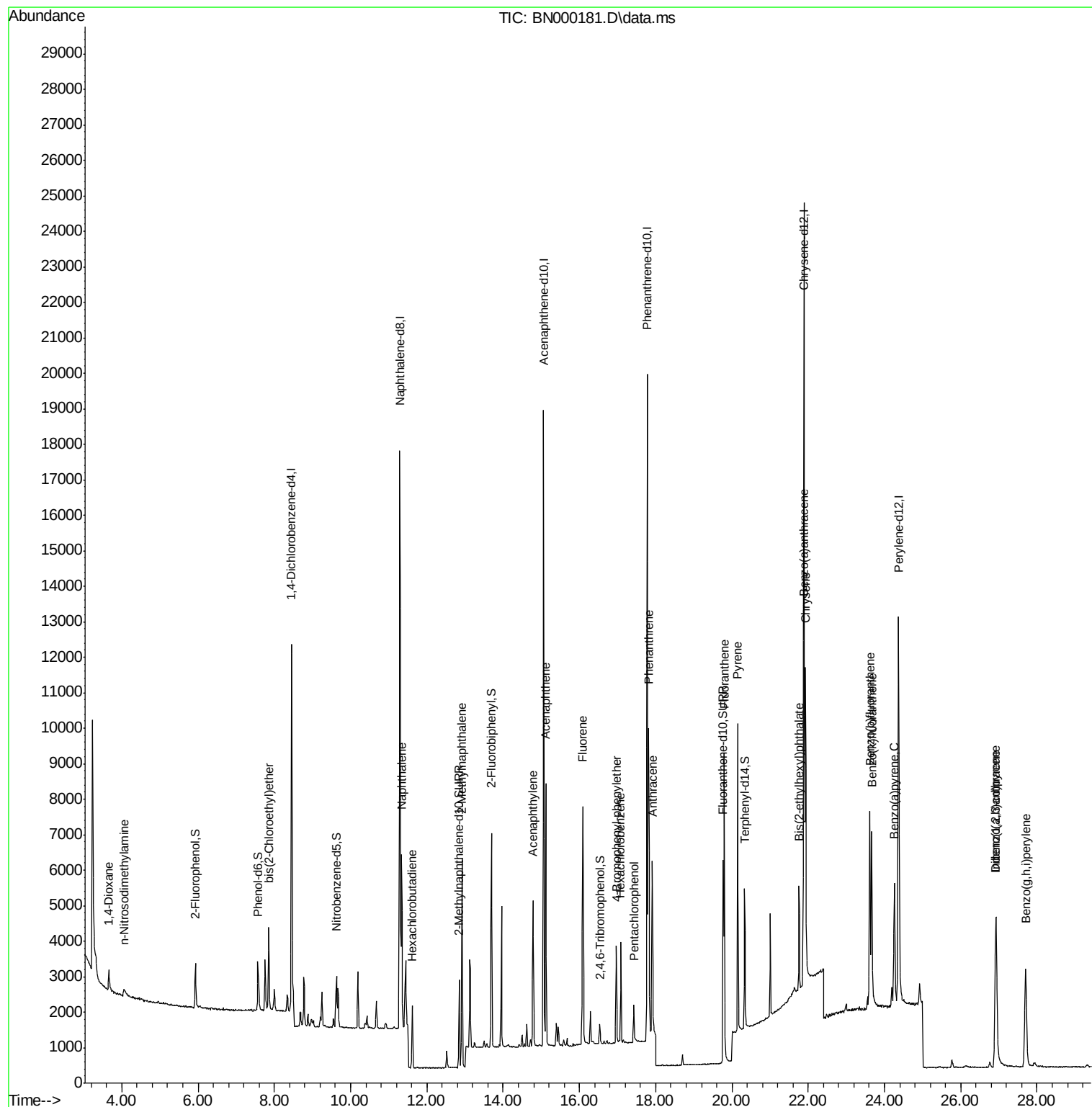
System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.929	112	1299	0.08	ng	0.00
5) Phenol-d6	7.579	99	1584	0.07	ng	0.00
8) Nitrobenzene-d5	9.627	82	1293	0.06	ng	0.00
11) 2-Methylnaphthalene-d10	12.849	152	3308	0.09	ng	0.00
14) 2,4,6-Tribromophenol	16.533	330	308	0.08	ng	0.00
15) 2-Fluorobiphenyl	13.692	172	5227	0.11	ng	0.00
25) Fluoranthene-d10	19.772	212	6489	0.02	ng	0.00
29) Terphenyl-d14	20.335	244	3732	0.09	ng	0.00

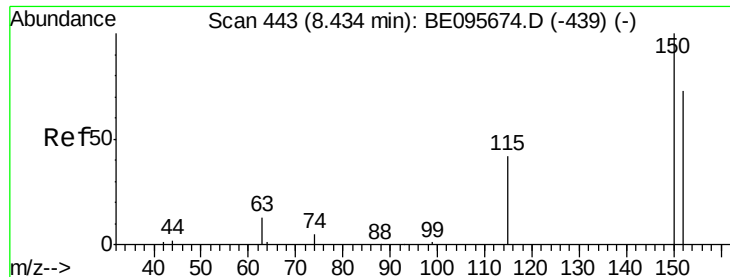
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.662	88	1071	0.11	ng	# 53
3) n-Nitrosodimethylamine	4.047	42	203	0.02	ng	# 53
6) bis(2-Chloroethyl)ether	7.853	93	2029	0.09	ng	# 1
9) Naphthalene	11.338	128	6519	0.03	ng	# 71
10) Hexachlorobutadiene	11.618	225	1115	0.07	ng	97
12) 2-Methylnaphthalene	12.920	142	4113	0.09	ng	99
16) Acenaphthylene	14.782	152	4694	0.08	ng	100
17) Acenaphthene	15.126	154	3932	0.10	ng	95
18) Fluorene	16.086	166	4902	0.10	ng	# 80
20) 4-Bromophenyl-phenylether	16.968	248	1351	0.08	ng	# 81
21) Hexachlorobenzene	17.085	284	1946	0.12	ng	# 80
22) Pentachlorophenol	17.425	266	633	0.17	ng	# 76
23) Phenanthrene	17.819	178	8712	0.11	ng	96
24) Anthracene	17.914	178	6791	0.09	ng	# 82
26) Fluoranthene	19.802	202	8145	0.08	ng	# 96
28) Pyrene	20.154	202	8595	0.10	ng	98
30) Benzo(a)anthracene	21.875	228	6347	0.09	ng	98
31) Chrysene	21.928	228	7653	0.11	ng	99
32) Bis(2-ethylhexyl)phtha...	21.758	149	2967	0.02	ng	# 49
33) Indeno(1,2,3-cd)pyrene	26.914	276	6104	0.09	ng	# 90
35) Benzo(b)fluoranthene	23.614	252	7538	0.12	ng	94
36) Benzo(k)fluoranthene	23.662	252	6783	0.11	ng	# 72
37) Benzo(a)pyrene	24.261	252	5709	0.11	ng	# 69
38) Dibenzo(a,h)anthracene	26.931	278	4354	0.09	ng	# 78
39) Benzo(g,h,i)perylene	27.701	276	6108	0.12	ng	# 81

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 0.40 ng

RT: 8.460 min Scan# 635

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

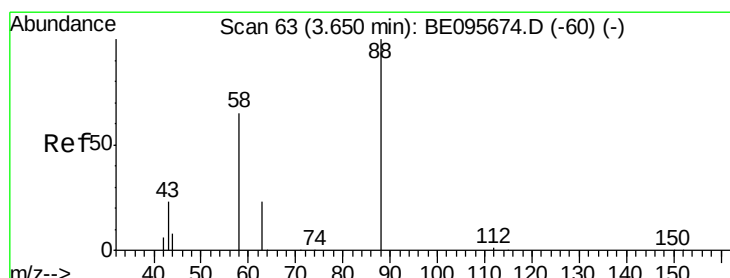
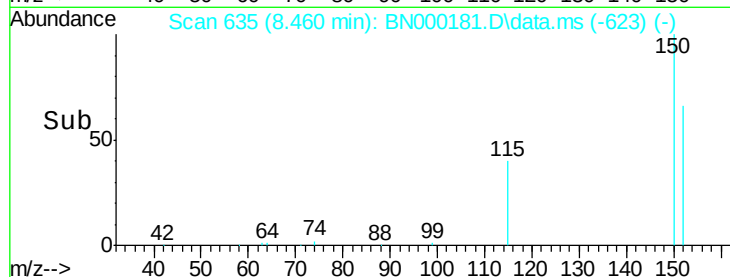
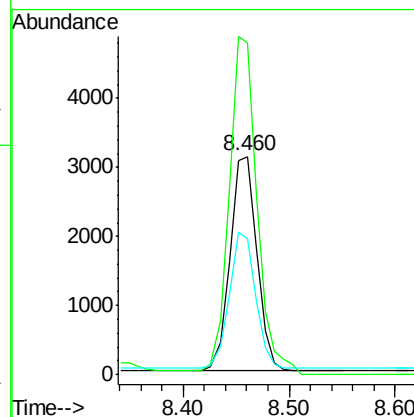
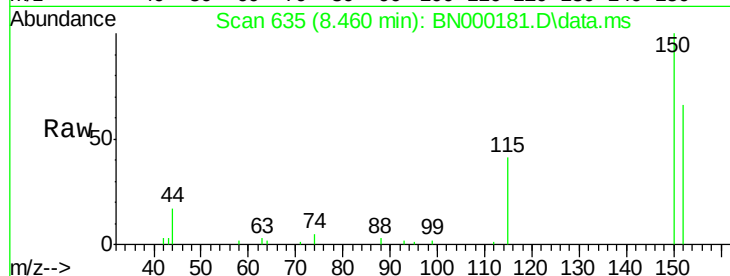
Tot Ion:152 Resp: 6042

Ion Ratio Lower Upper

152 100

150 152.0 117.2 175.8

115 62.1 57.0 85.6



#2

1,4-Dioxane

Concen: 0.11 ng

RT: 3.662 min Scan# 74

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

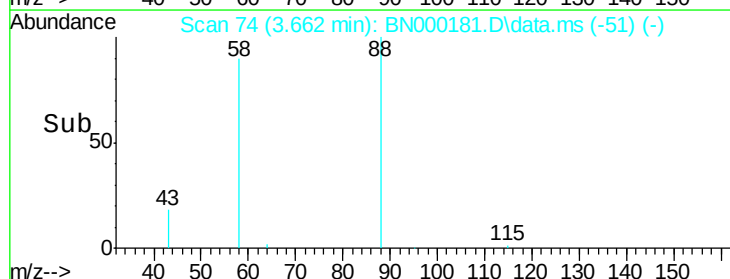
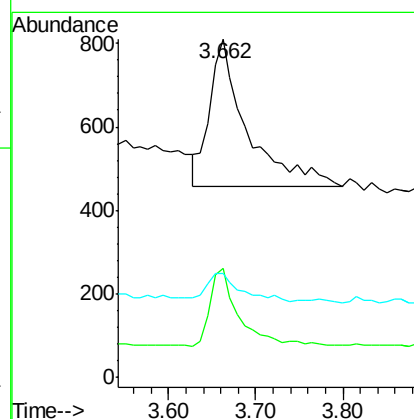
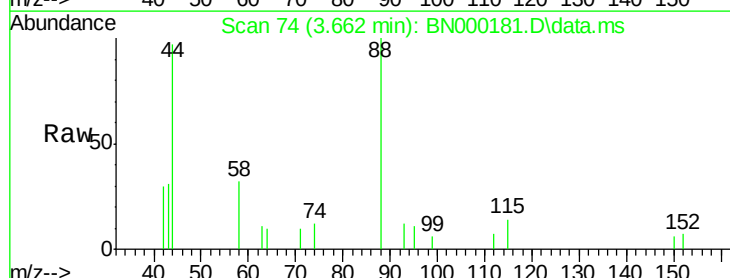
Tgt Ion: 88 Resp: 1071

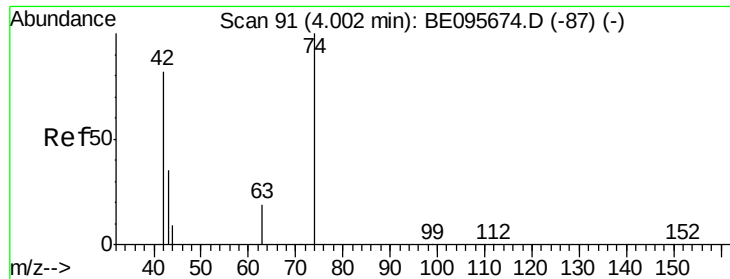
Ion Ratio Lower Upper

88 100

58 39.4 63.2 94.8#

43 16.2 41.2 61.8#





#3

n-Nitrosodimethylamine

Concen: 0.02 ng

RT: 4.047 min Scan# 119

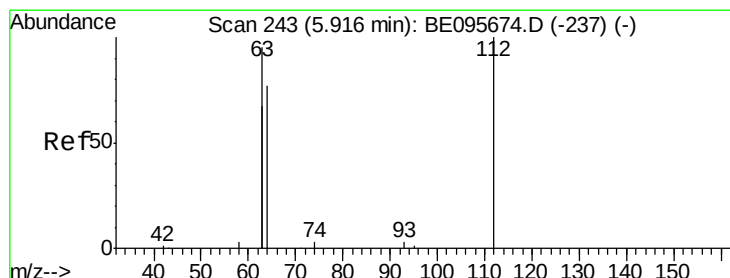
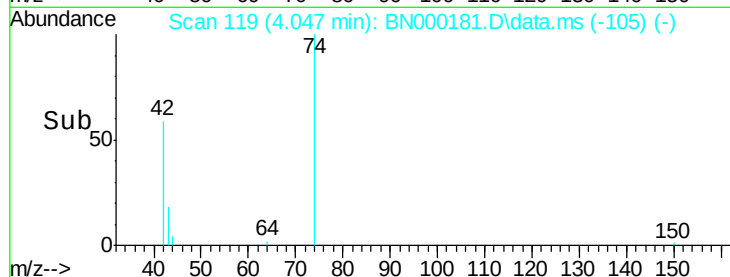
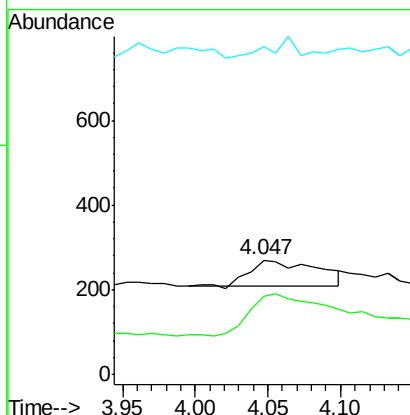
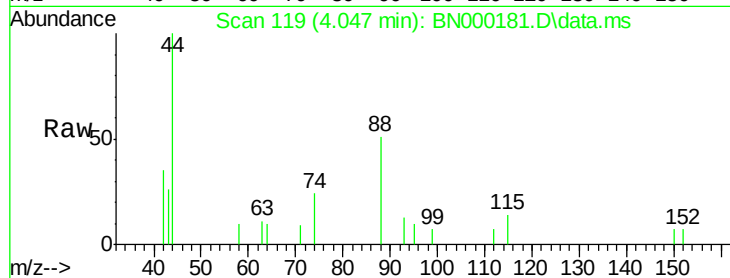
Delta R.T. 0.017 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion: 42 Resp: 203

Ion	Ratio	Lower	Upper
42	100		
74	171.4	96.0	144.0#
44	35.5	12.0	18.0#



#4

2-Fluorophenol

Concen: 0.08 ng

RT: 5.929 min Scan# 339

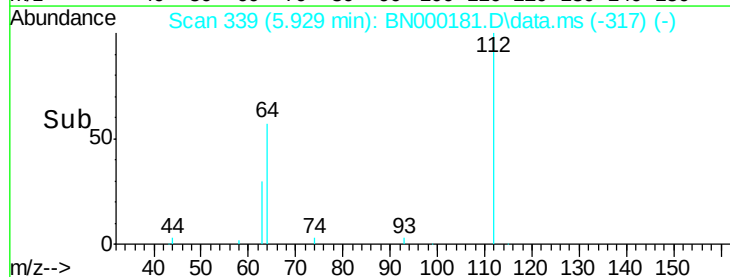
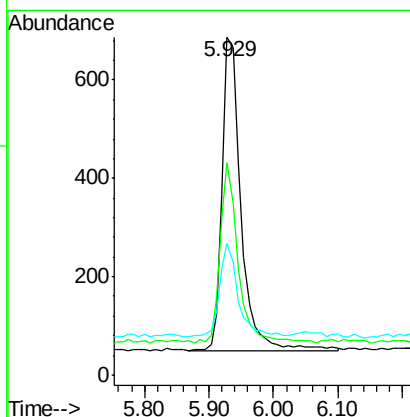
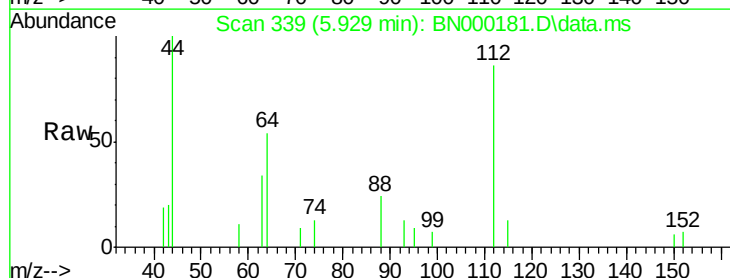
Delta R.T. -0.009 min

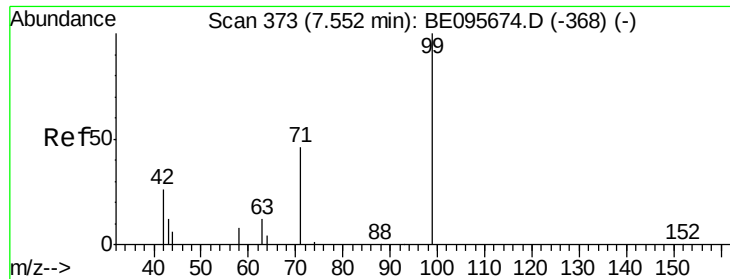
Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tgt Ion: 112 Resp: 1299

Ion	Ratio	Lower	Upper
112	100		
64	54.6	60.1	90.1#
63	29.3	116.8	175.2#





#5

Phenol-d6

Concen: 0.07 ng

RT: 7.579 min Scan# 532

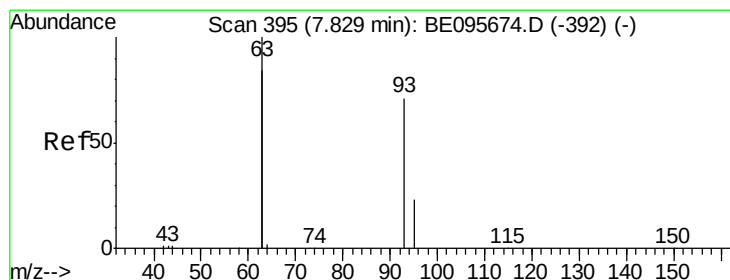
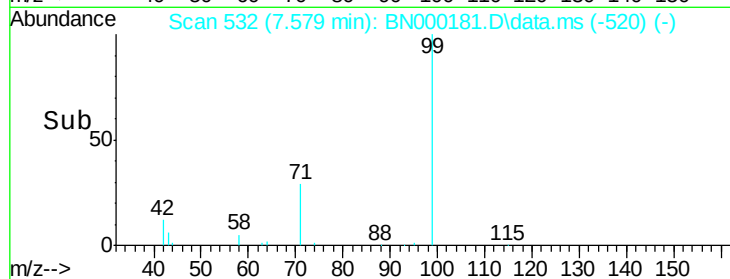
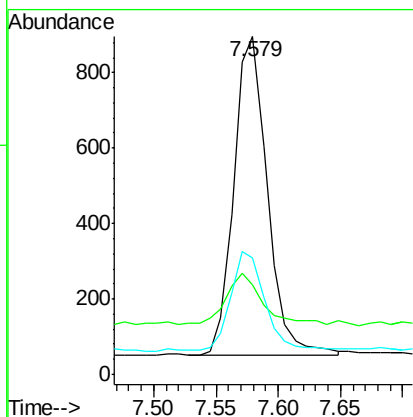
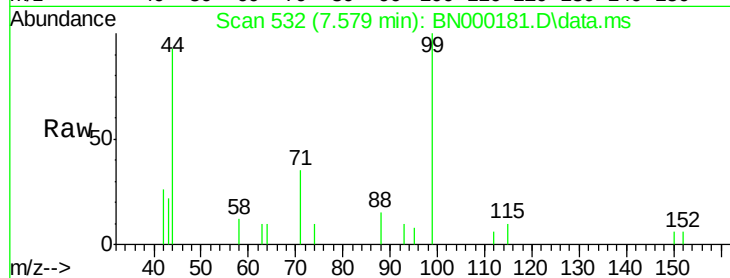
Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion: 99 Resp: 1584

Ion	Ratio	Lower	Upper
99	100		
42	17.3	20.2	30.2#
71	30.9	28.4	42.6



#6

bis(2-Chloroethyl)ether

Concen: 0.09 ng

RT: 7.853 min Scan# 564

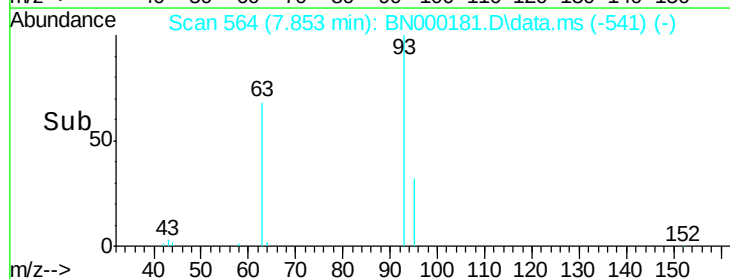
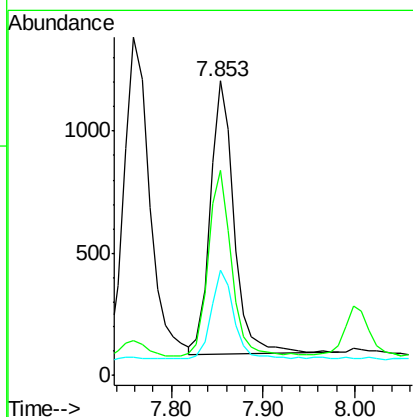
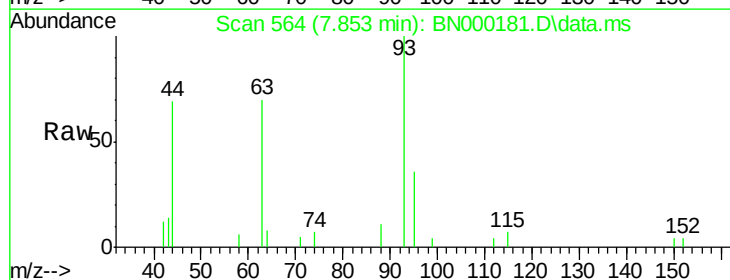
Delta R.T. -0.000 min

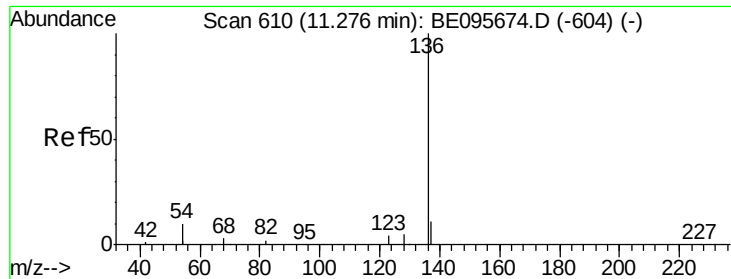
Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tgt Ion: 93 Resp: 2029

Ion	Ratio	Lower	Upper
93	100		
63	66.4	275.3	412.9#
95	31.6	25.2	37.8





#7

Naphthalene-d8

Concen: 0.40 ng

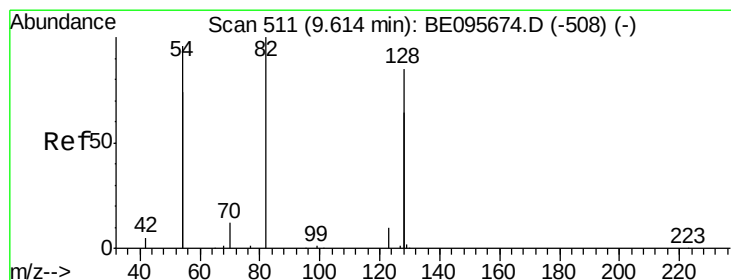
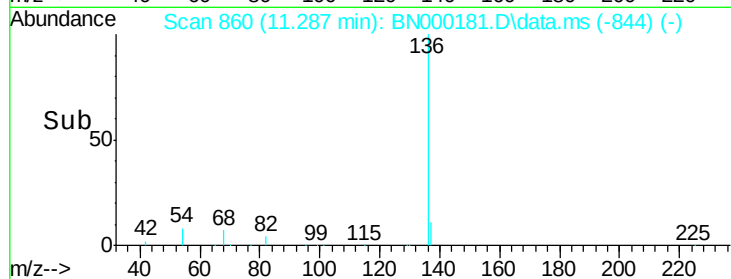
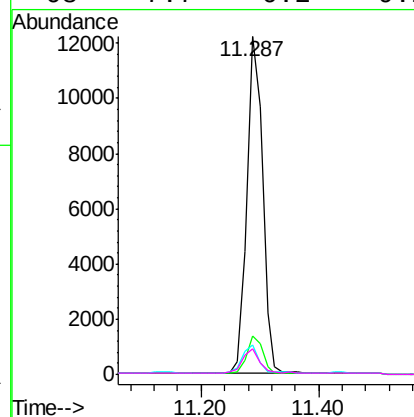
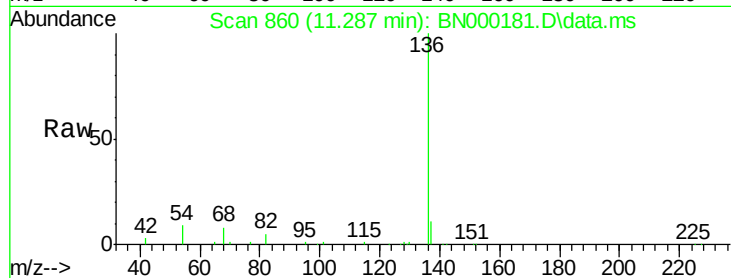
RT: 11.287 min Scan# 860

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion:136	Resp:	22293
Ion Ratio	Lower	Upper
136	100	
137	11.3	9.5 14.3
54	8.6	29.1 43.7#
68	7.7	6.2 9.2



#8

Nitrobenzene-d5

Concen: 0.06 ng

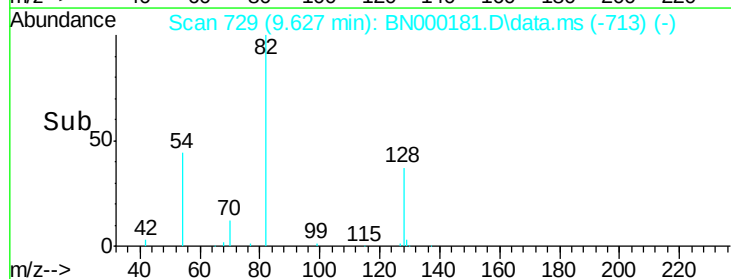
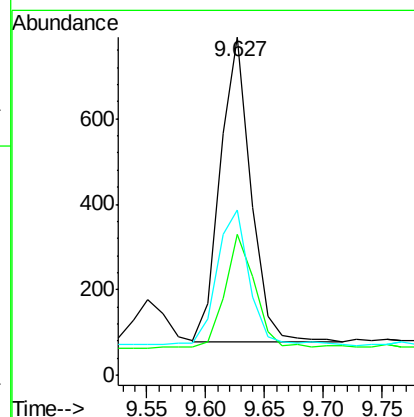
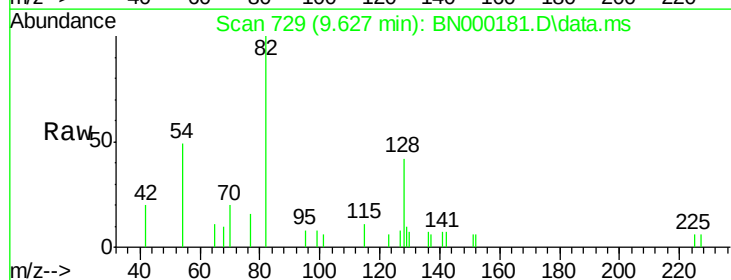
RT: 9.627 min Scan# 729

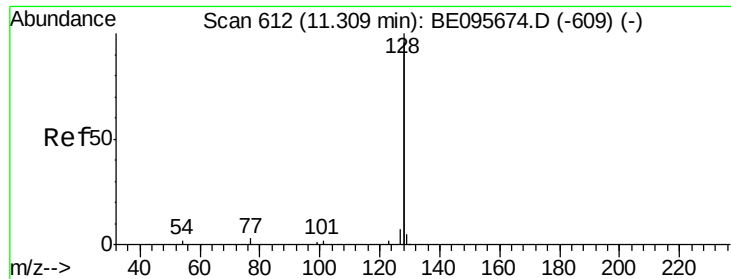
Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tgt Ion: 82	Resp:	1293
Ion Ratio	Lower	Upper
82	100	
128	41.6	150.0 225.0#
54	49.1	154.2 231.4#





#9

Naphthalene

Concen: 0.03 ng

RT: 11.338 min Scan# 864

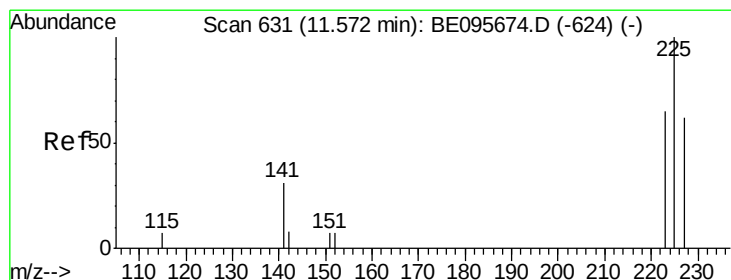
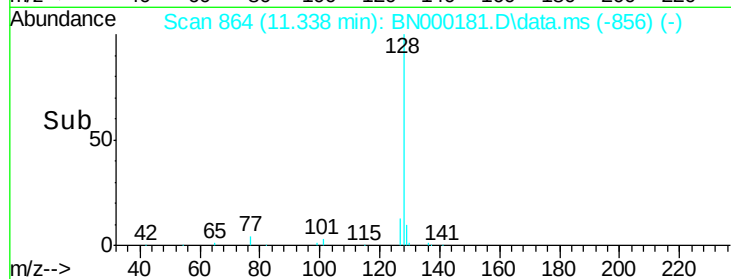
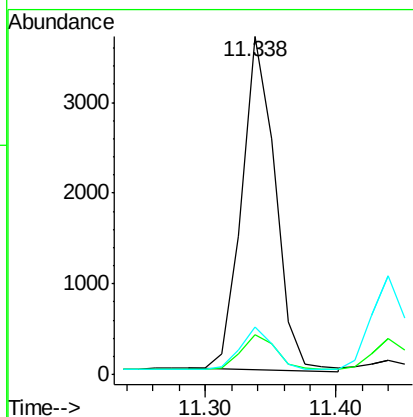
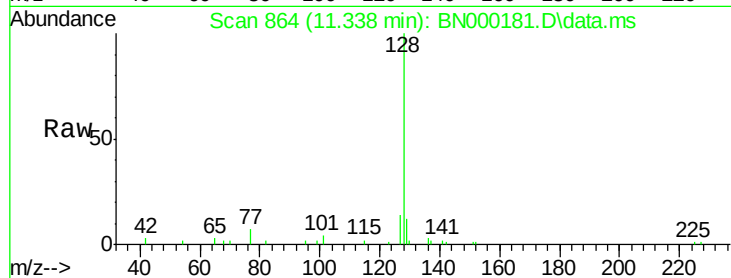
Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion:128 Resp: 6519

Ion	Ratio	Lower	Upper
128	100		
129	11.8	2.6	3.8#
127	14.1	2.8	4.2#



#10

Hexachlorobutadiene

Concen: 0.07 ng

RT: 11.618 min Scan# 901

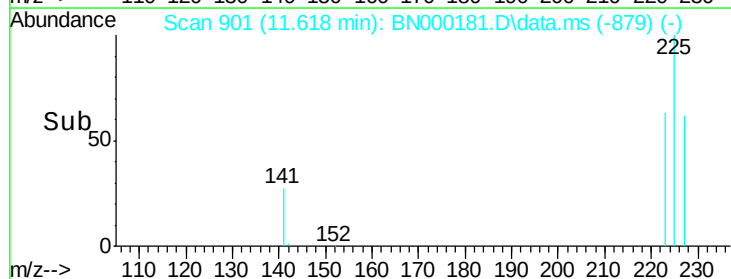
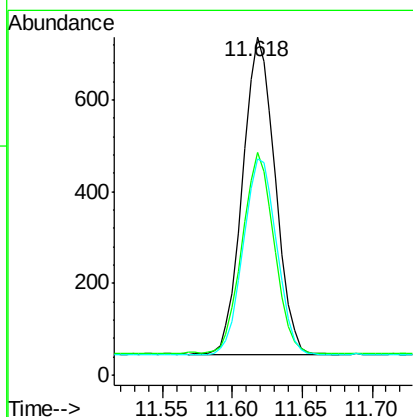
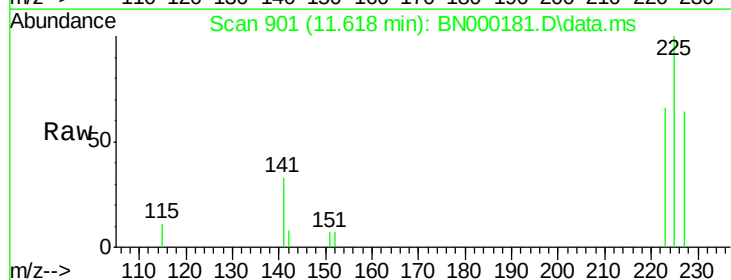
Delta R.T. -0.000 min

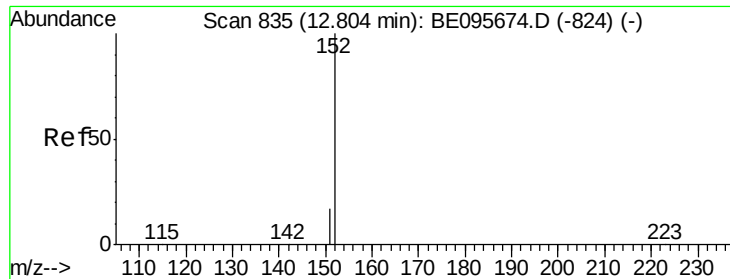
Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tgt Ion:225 Resp: 1115

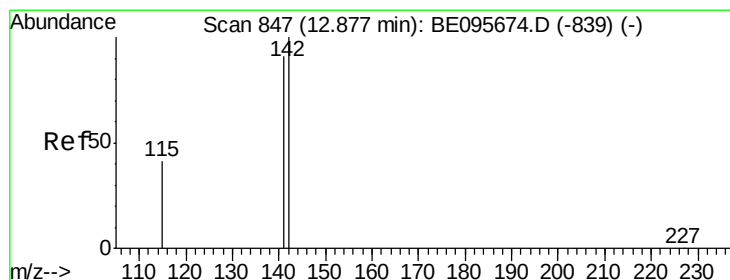
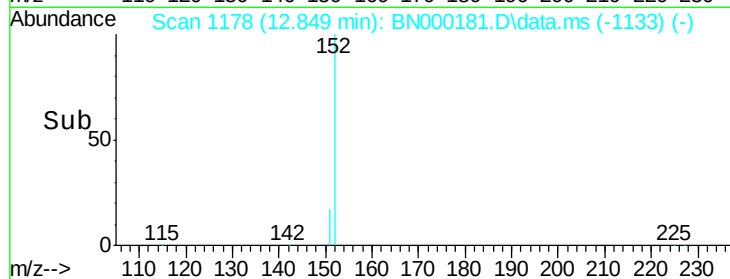
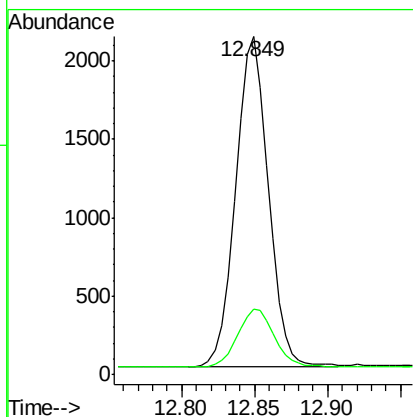
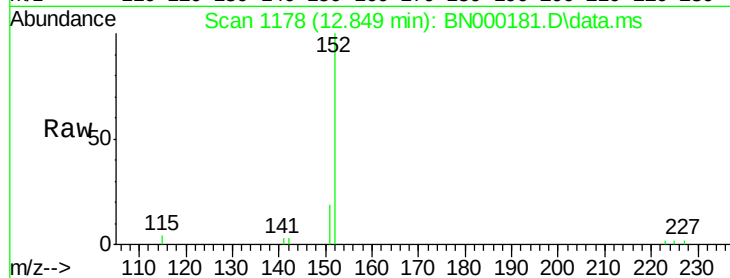
Ion	Ratio	Lower	Upper
225	100		
223	62.3	53.0	79.6
227	63.7	51.4	77.2





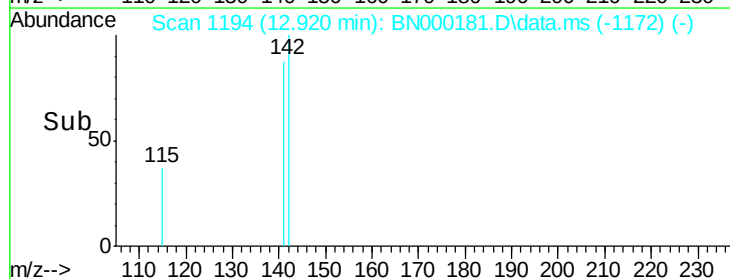
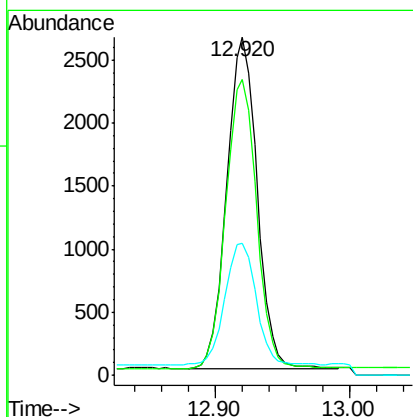
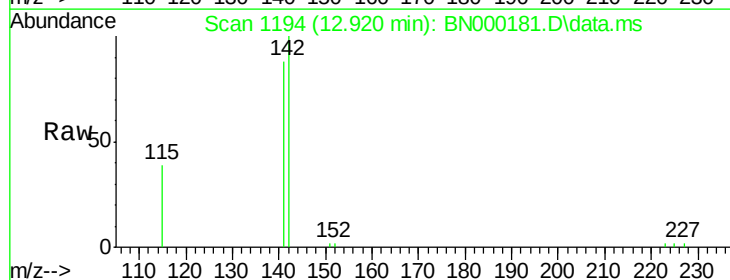
#11
2-Methylnaphthalene-d10
Concen: 0.09 ng
RT: 12.849 min Scan# 1178
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

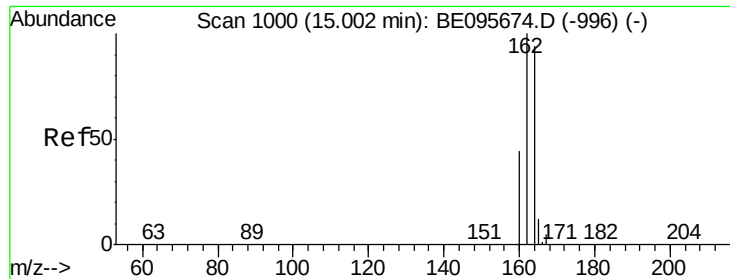
Tot Ion:152 Resp: 3308
Ion Ratio Lower Upper
152 100
151 19.7 15.4 23.0



#12
2-Methylnaphthalene
Concen: 0.09 ng
RT: 12.920 min Scan# 1194
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

Tgt Ion:142 Resp: 4113
Ion Ratio Lower Upper
142 100
141 87.6 70.4 105.6
115 39.2 31.7 47.5





#13

Acenaphthene-d10

Concen: 0.40 ng

RT: 15.055 min Scan# 1416

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

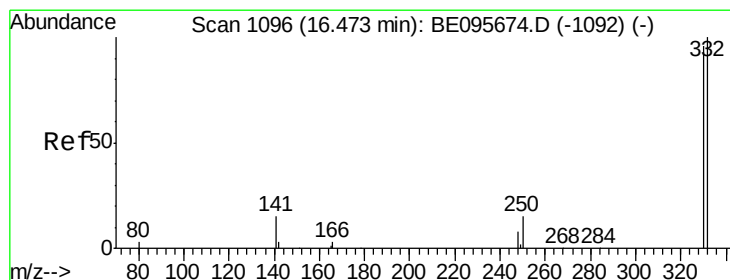
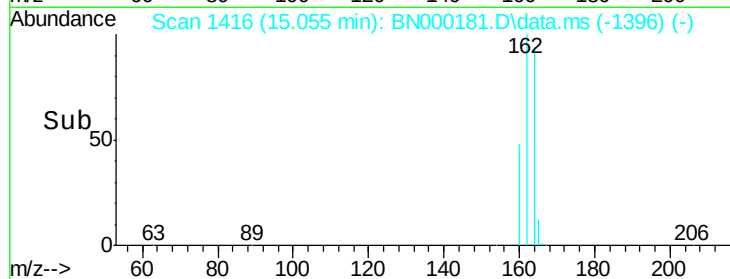
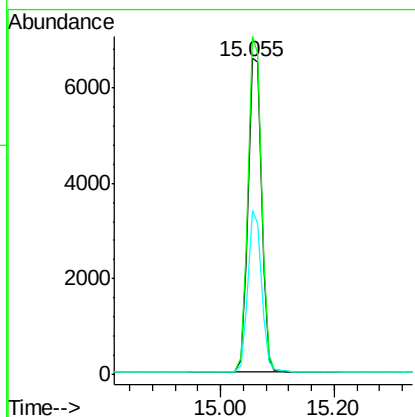
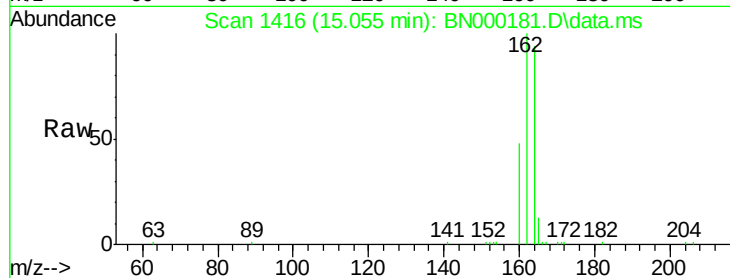
Tot Ion:164 Resp: 11048

Ion Ratio Lower Upper

164 100

162 106.7 83.1 124.7

160 51.7 37.1 55.7



#14

2,4,6-Tribromophenol

Concen: 0.08 ng

RT: 16.533 min Scan# 1559

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

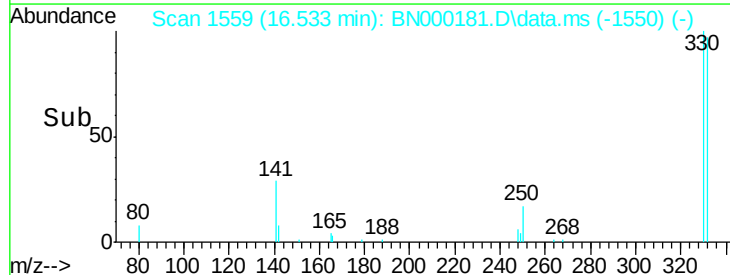
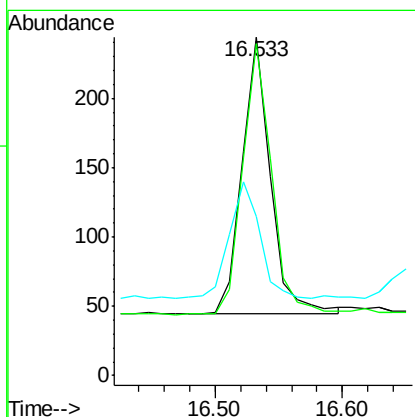
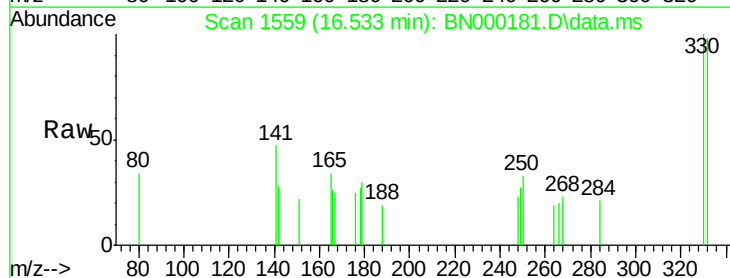
Tgt Ion:330 Resp: 308

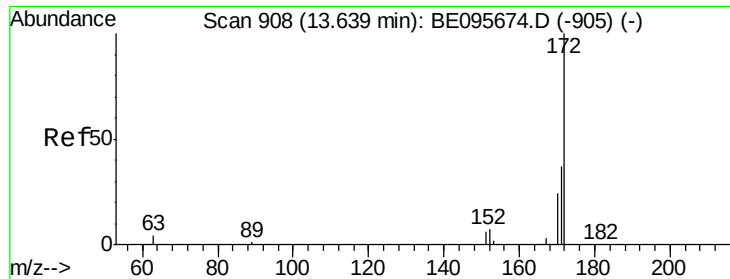
Ion Ratio Lower Upper

330 100

332 101.3 152.7 229.1#

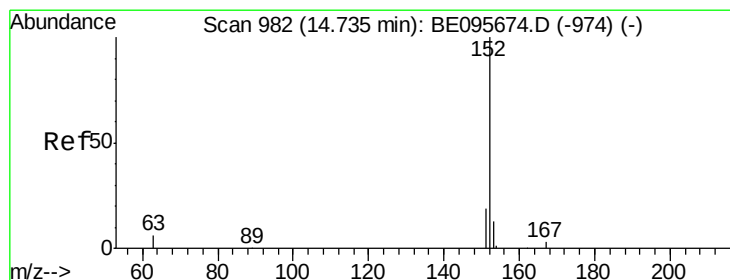
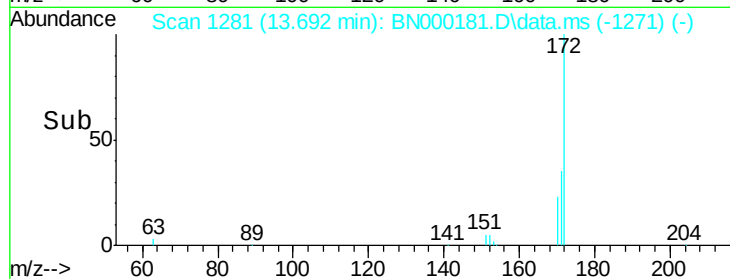
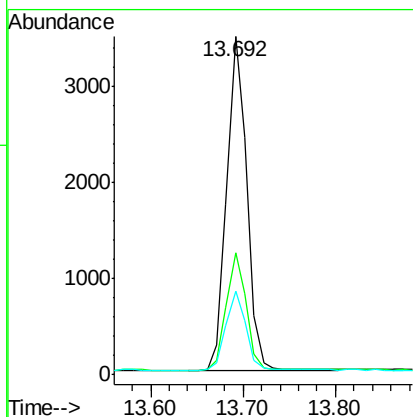
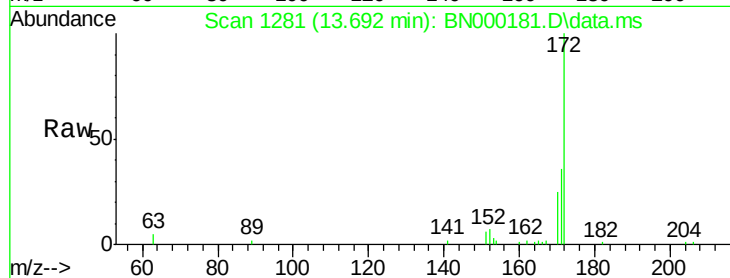
141 45.1 33.7 50.5





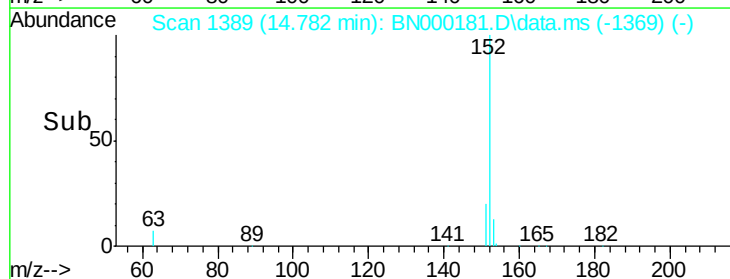
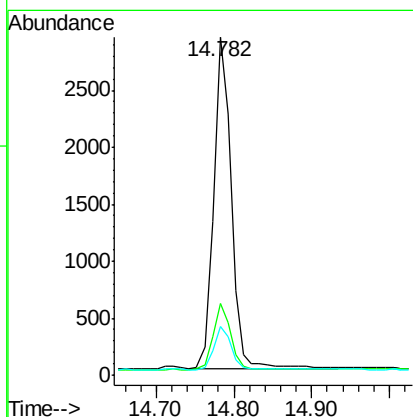
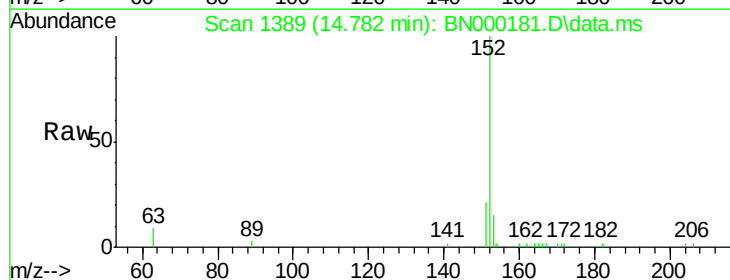
#15
2-Fluorobiphenyl
Concen: 0.11 ng
RT: 13.692 min Scan# 1281
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

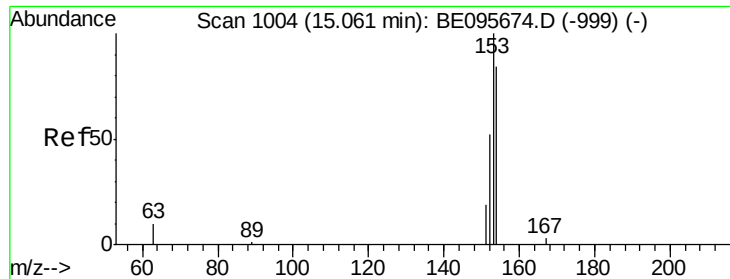
Tot Ion	Ratio	Lower	Upper
172	100		
171	36.0	29.9	44.9
170	24.5	21.8	32.8



#16
Acenaphthylene
Concen: 0.08 ng
RT: 14.782 min Scan# 1389
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

Tgt Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.7	23.5
153	12.8	10.5	15.7





#17

Acenaphthene

Concen: 0.10 ng

RT: 15.126 min Scan# 1423

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

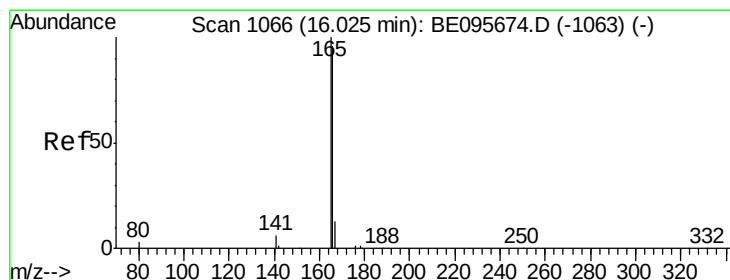
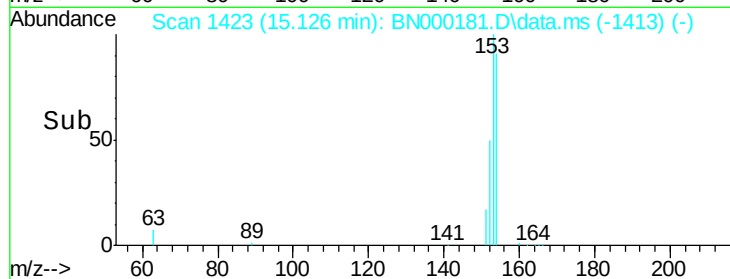
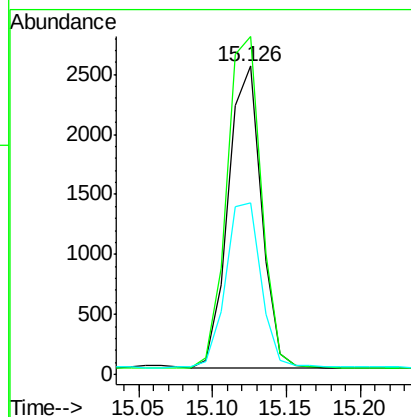
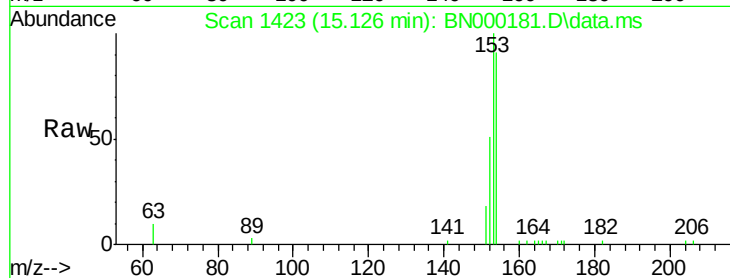
Tot Ion:154 Resp: 3932

Ion Ratio Lower Upper

154 100

153 115.1 89.2 133.8

152 58.3 42.0 63.0



#18

Fluorene

Concen: 0.10 ng

RT: 16.086 min Scan# 1517

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

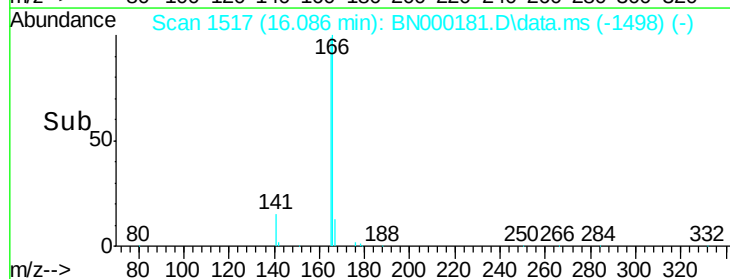
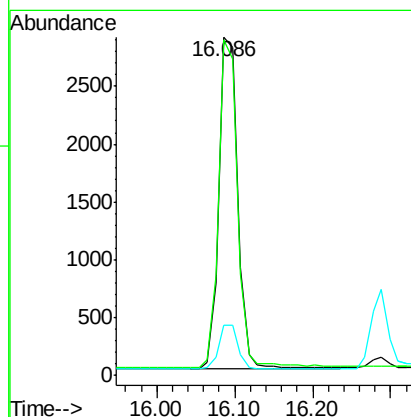
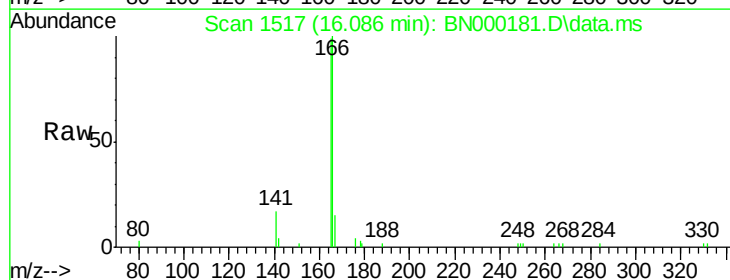
Tgt Ion:166 Resp: 4902

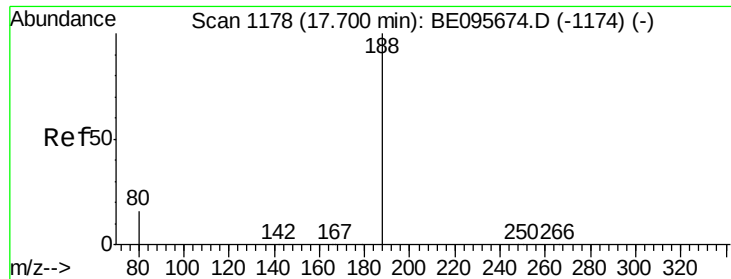
Ion Ratio Lower Upper

166 100

165 97.8 77.8 116.6

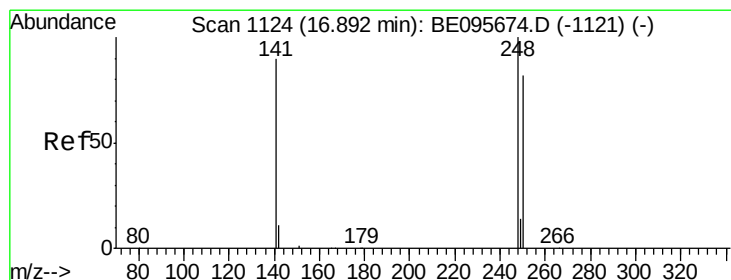
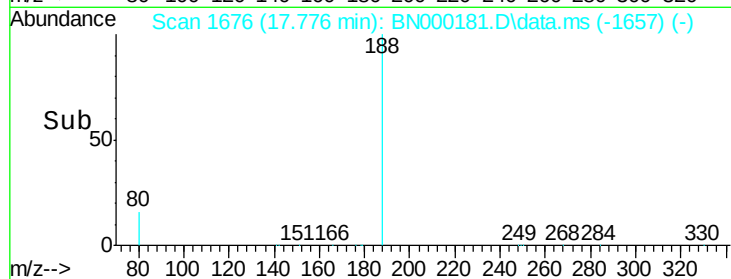
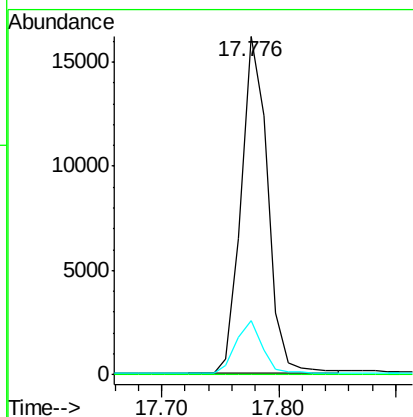
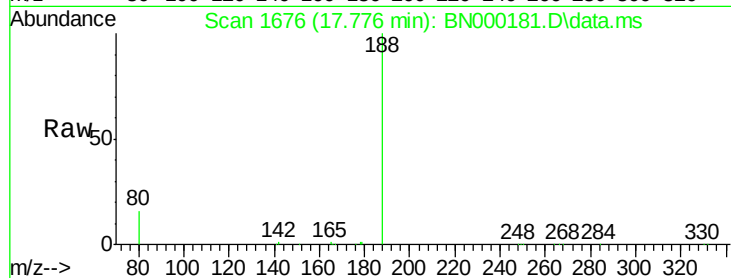
167 13.8 42.4 63.6#





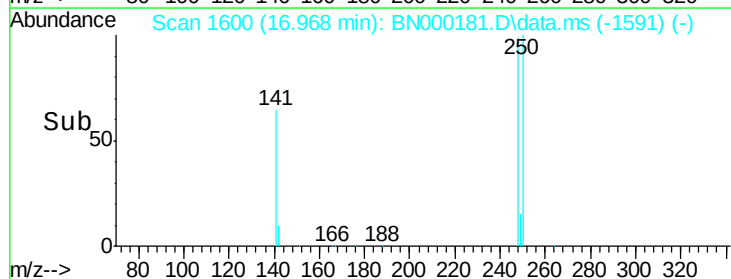
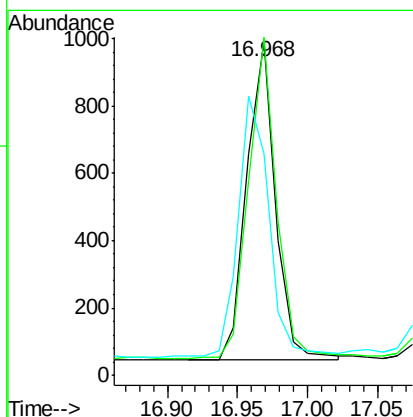
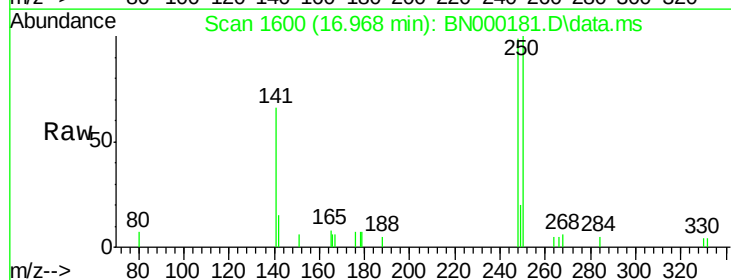
#19
Phenanthrene-d10
Concen: 0.40 ng
RT: 17.776 min Scan# 1676
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

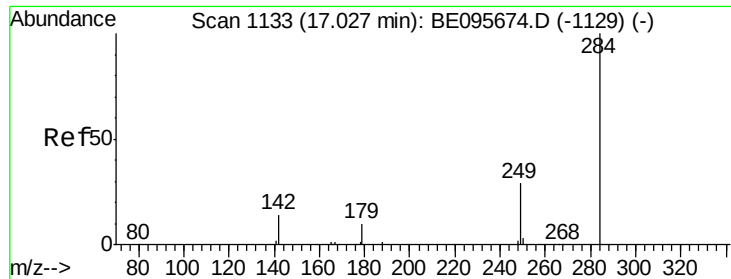
Tot Ion	Ratio	Lower	Upper
188	100		
94	0.0	3.9	5.9#
80	15.9	3.6	5.4#



#20
4-Bromophenyl-phenylether
Concen: 0.08 ng
RT: 16.968 min Scan# 1600
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

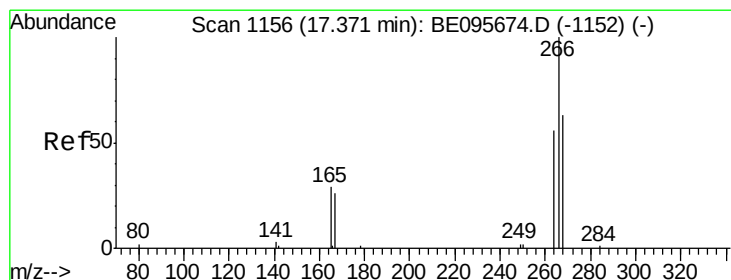
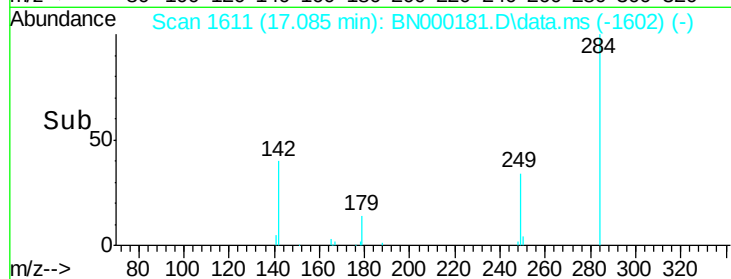
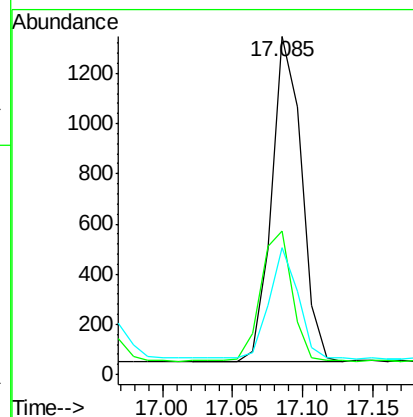
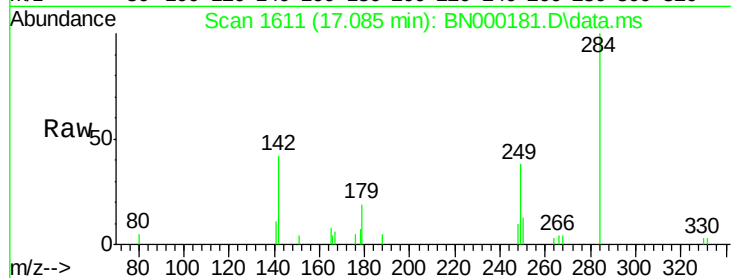
Tgt Ion	Ratio	Lower	Upper
248	100		
250	101.3	62.7	94.1#
141	66.6	48.2	72.2





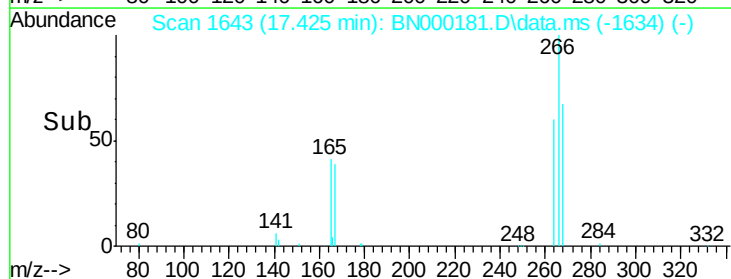
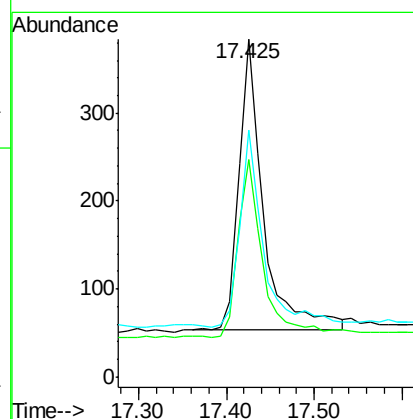
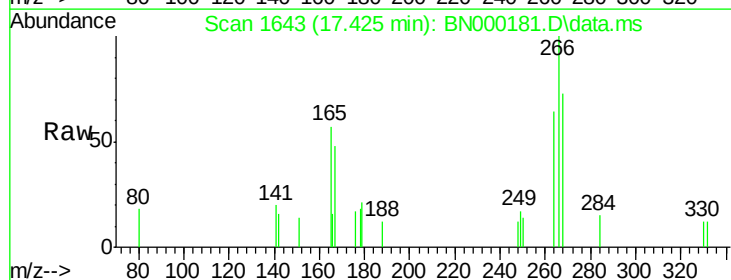
#21
Hexachlorobenzene
Concen: 0.12 ng
RT: 17.085 min Scan# 1611
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

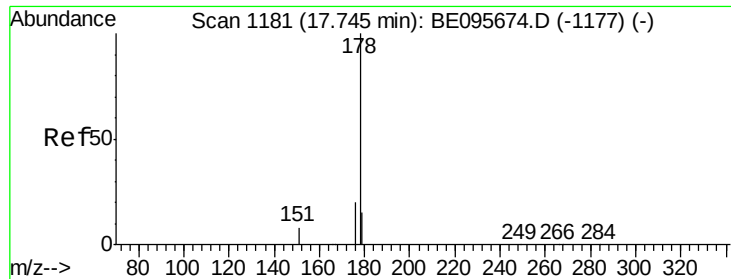
Tot Ion	Ratio	Lower	Upper
284	100		
142	42.2	22.1	33.1#
249	33.4	34.8	52.2#



#22
Pentachlorophenol
Concen: 0.17 ng
RT: 17.425 min Scan# 1643
Delta R.T. -0.000 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

Tgt Ion	Ratio	Lower	Upper
266	100		
264	64.3	72.5	108.7#
268	73.2	73.8	110.6#





#23

Phenanthrene

Concen: 0.11 ng

RT: 17.819 min Scan# 1680

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

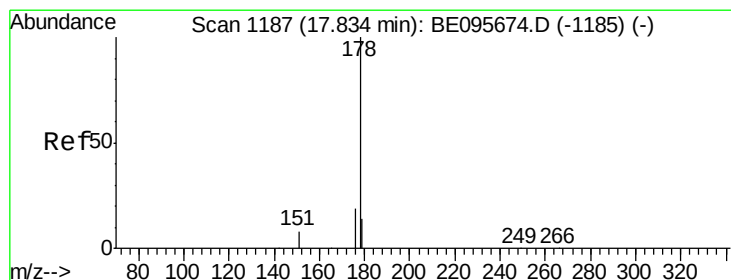
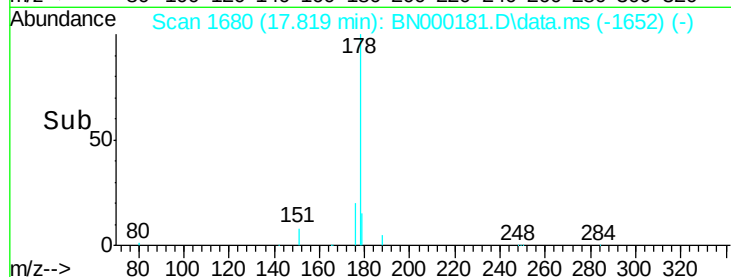
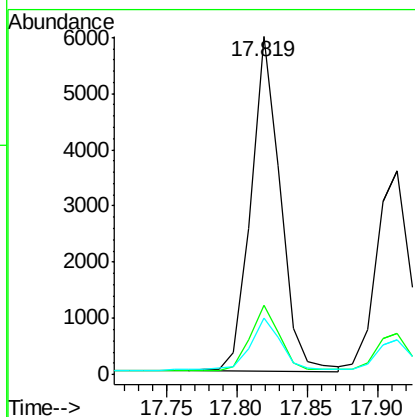
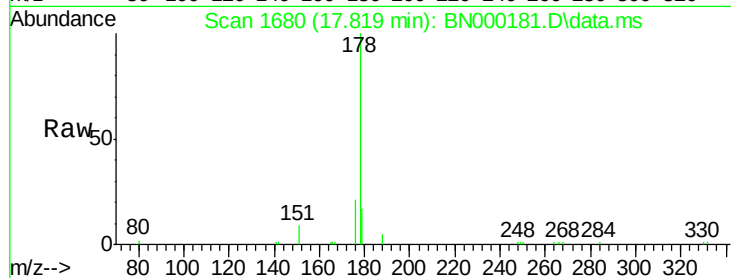
Tot Ion:178 Resp: 8712

Ion Ratio Lower Upper

178 100

176 20.4 15.1 22.7

179 16.8 11.8 17.6



#24

Anthracene

Concen: 0.09 ng

RT: 17.914 min Scan# 1689

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

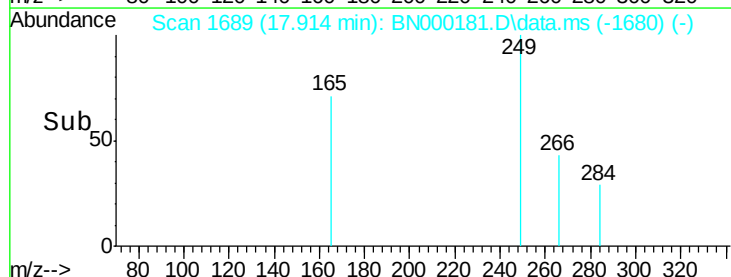
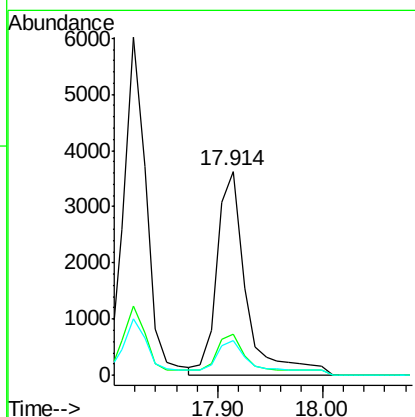
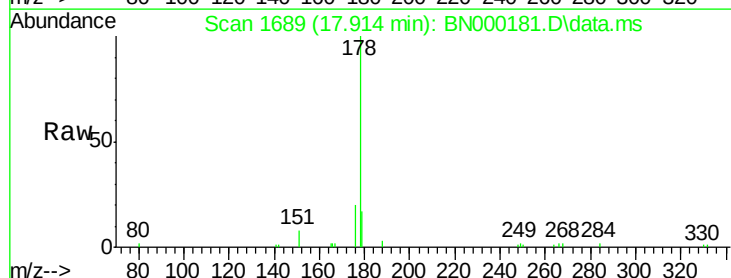
Tgt Ion:178 Resp: 6791

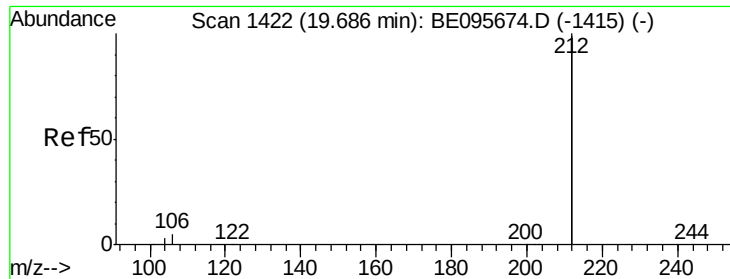
Ion Ratio Lower Upper

178 100

176 24.9 12.8 19.2#

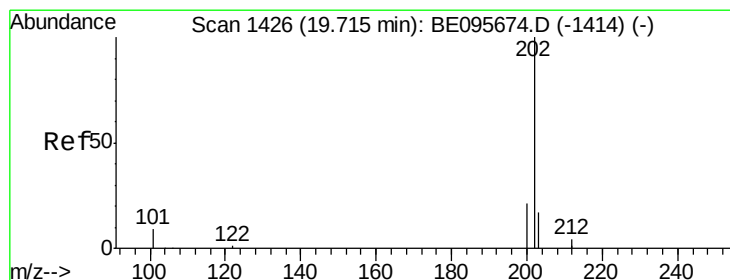
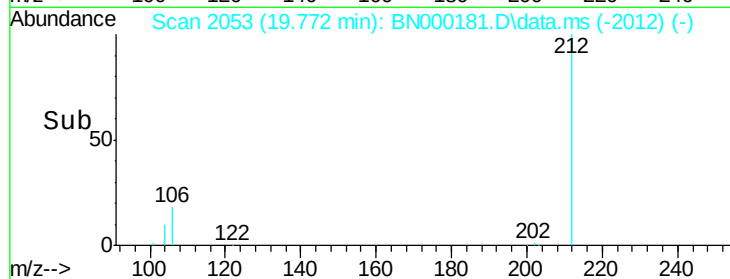
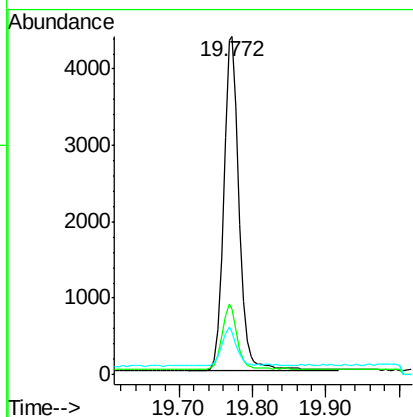
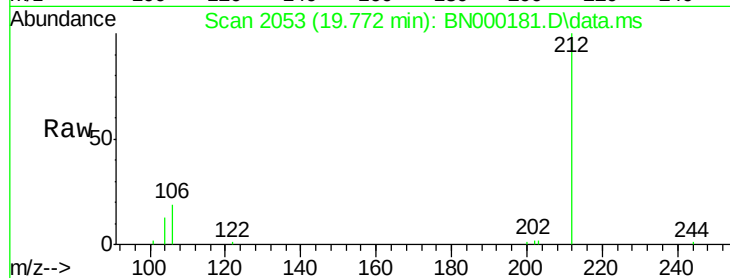
179 23.0 13.0 19.6#





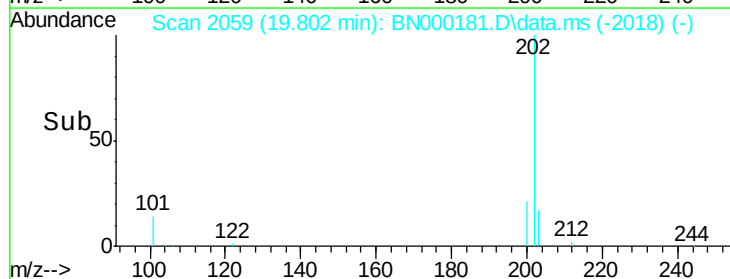
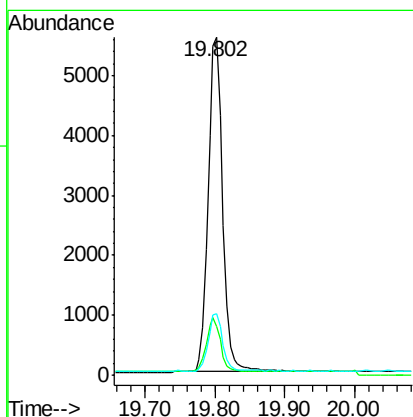
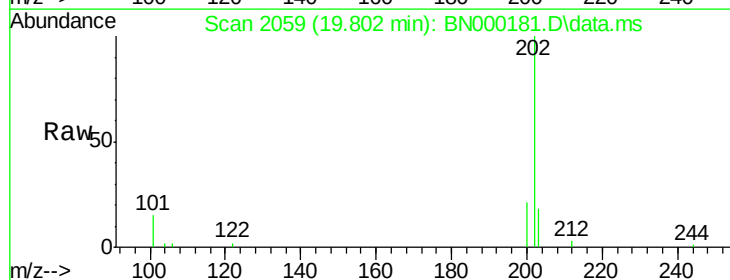
#25
 Fluoranthene-d10
 Concen: 0.02 ng
 RT: 19.772 min Scan# 2053
 Delta R.T. 0.005 min
 Lab File: BN000181.D
 Acq: 27 Feb 2018 09:16

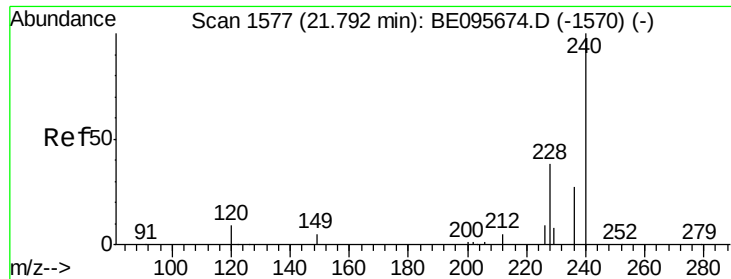
Tot Ion	Ratio	Lower	Upper
212	100		
106	19.0	2.8	4.2#
104	11.1	1.6	2.4#



#26
 Fluoranthene
 Concen: 0.08 ng
 RT: 19.802 min Scan# 2059
 Delta R.T. 0.005 min
 Lab File: BN000181.D
 Acq: 27 Feb 2018 09:16

Tgt Ion	Ratio	Lower	Upper
202	100		
101	15.7	9.8	14.8#
203	16.7	13.7	20.5





#27

Chrysene-d12

Concen: 0.40 ng

RT: 21.896 min Scan# 2278

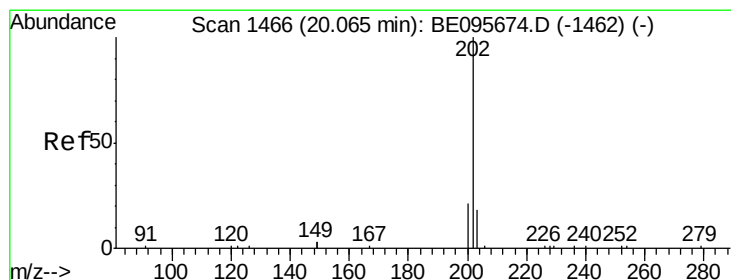
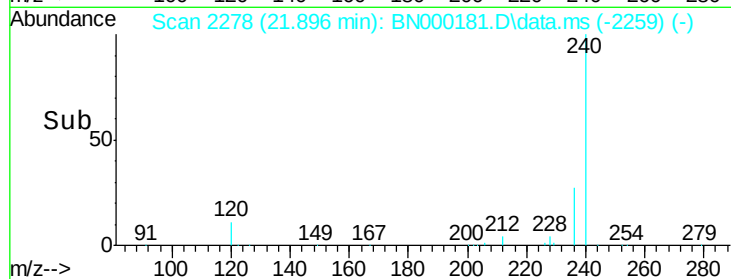
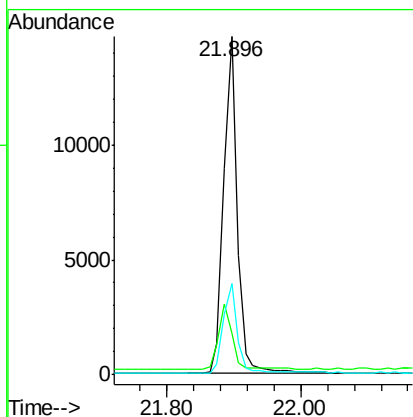
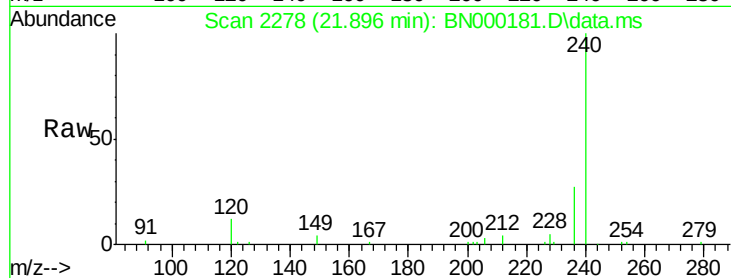
Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion:240 Resp: 20732

Ion	Ratio	Lower	Upper
240	100		
120	12.3	5.5	8.3#
236	27.0	20.7	31.1



#28

Pyrene

Concen: 0.10 ng

RT: 20.154 min Scan# 2114

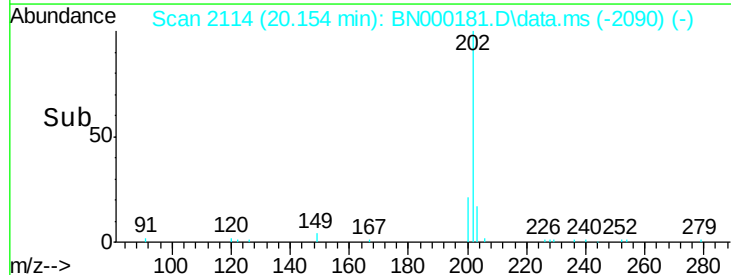
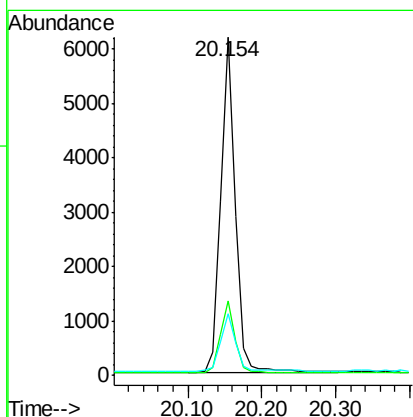
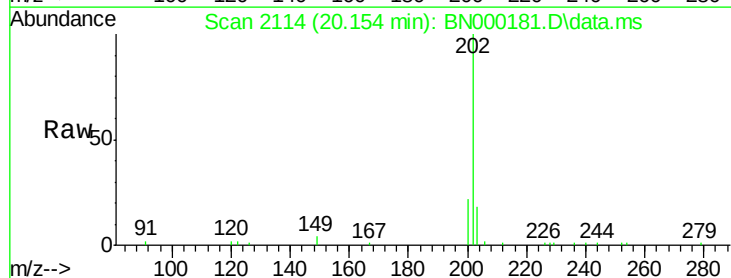
Delta R.T. -0.000 min

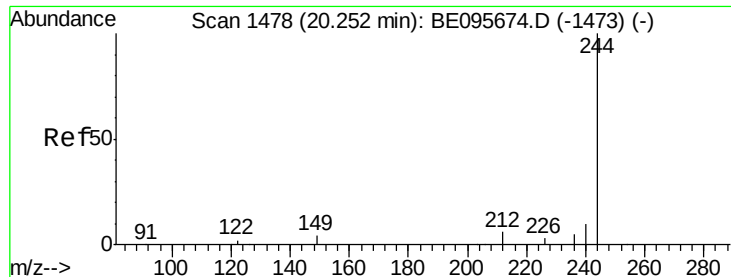
Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tgt Ion:202 Resp: 8595

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.6	25.0
203	18.3	13.8	20.8





#29

Terphenyl-d14

Concen: 0.09 ng

RT: 20.335 min Scan# 2131

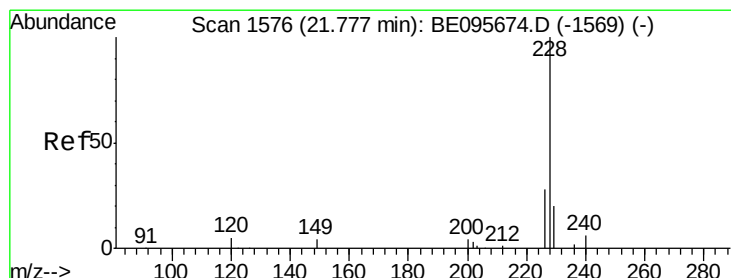
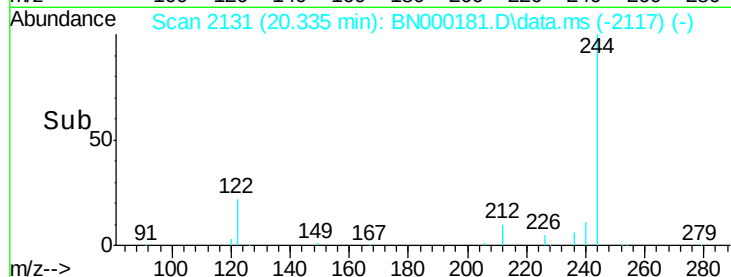
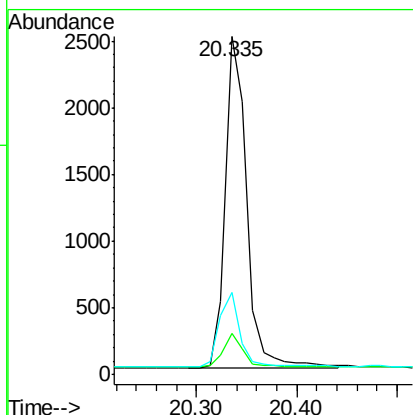
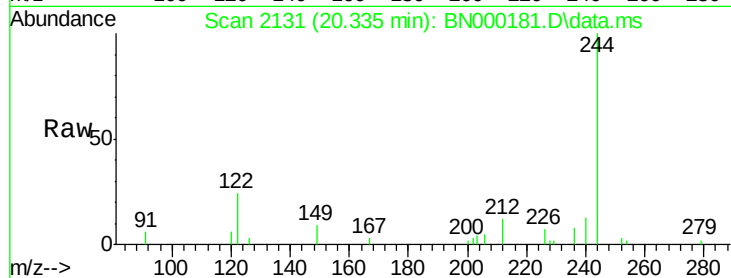
Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion:244 Resp: 3732

Ion	Ratio	Lower	Upper
244	100		
212	12.2	25.4	38.0#
122	24.2	8.1	12.1#



#30

Benzo(a)anthracene

Concen: 0.09 ng

RT: 21.875 min Scan# 2276

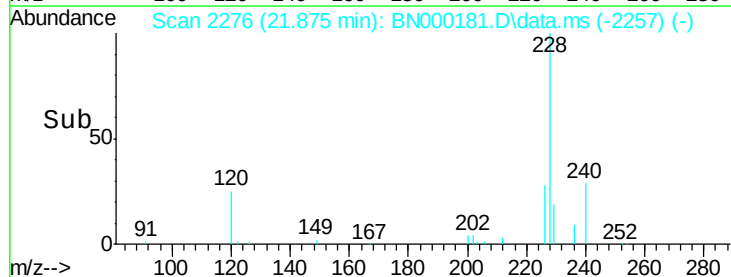
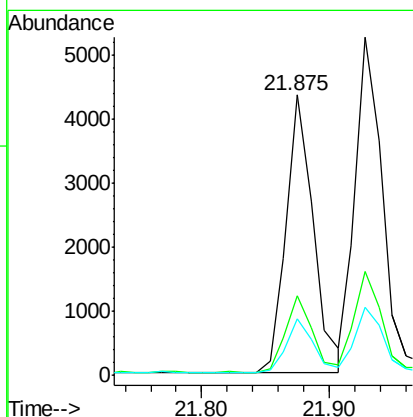
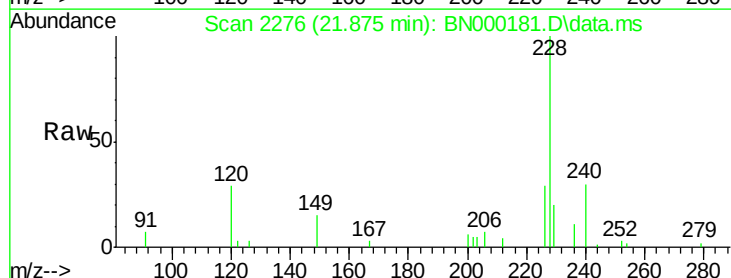
Delta R.T. -0.000 min

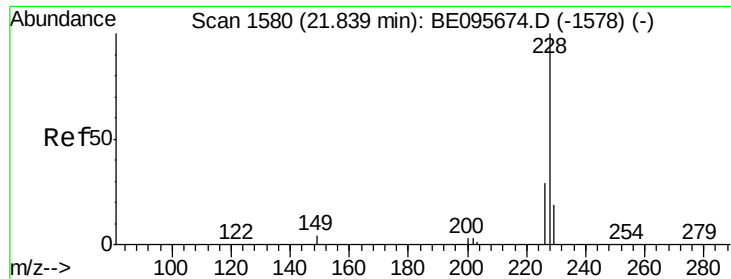
Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tgt Ion:228 Resp: 6347

Ion	Ratio	Lower	Upper
228	100		
226	28.6	24.0	36.0
229	20.3	16.0	24.0





#31

Chrysene

Concen: 0.11 ng

RT: 21.928 min Scan# 2281

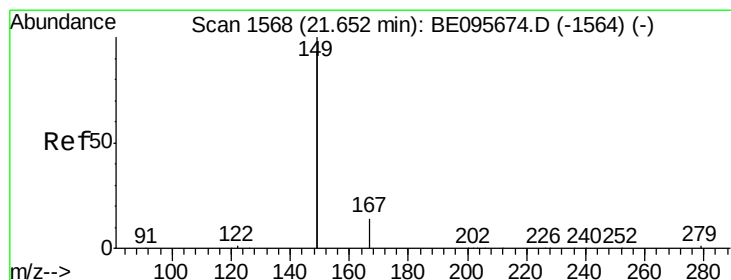
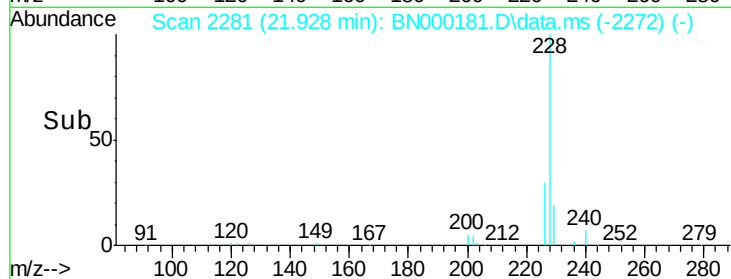
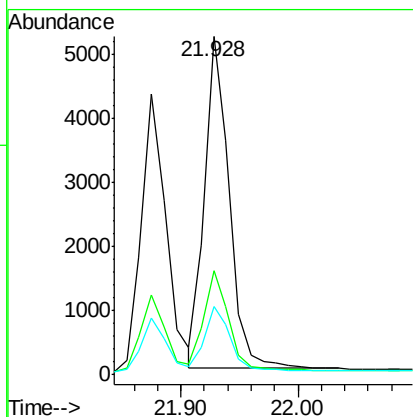
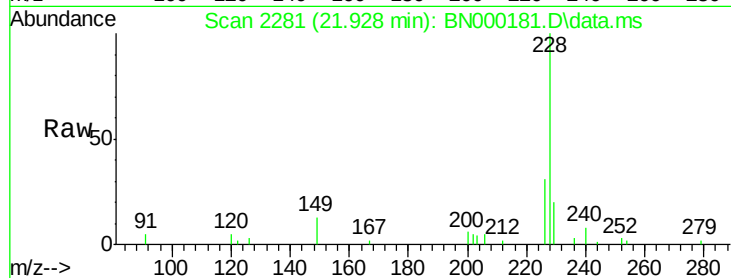
Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion:228 Resp: 7653

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.0	36.0
229	20.0	16.0	24.0



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.02 ng

RT: 21.758 min Scan# 2265

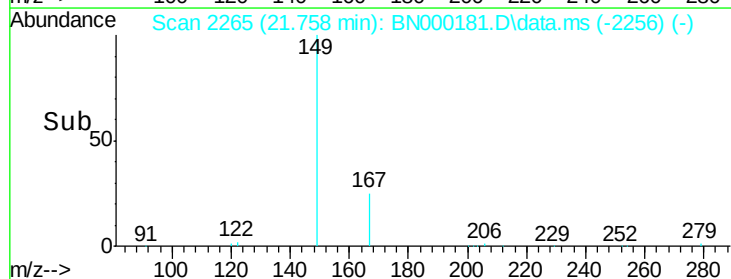
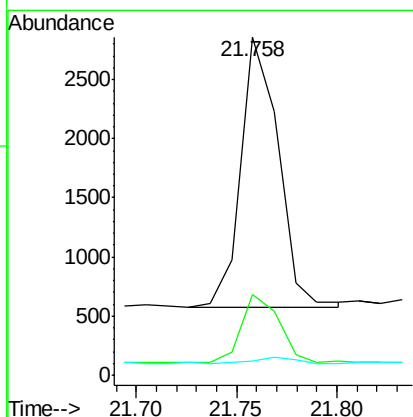
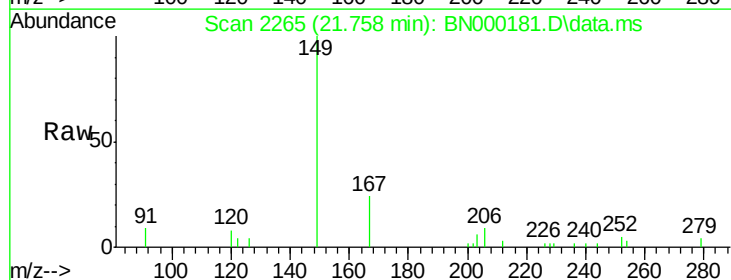
Delta R.T. -0.000 min

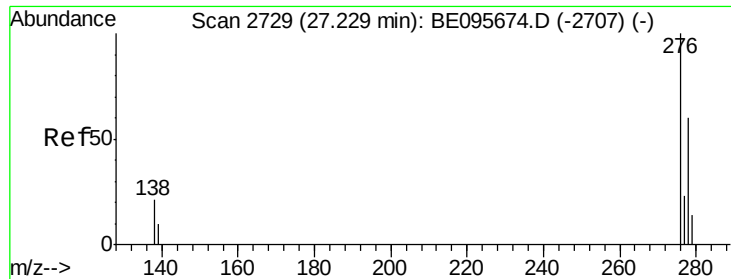
Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tgt Ion:149 Resp: 2967

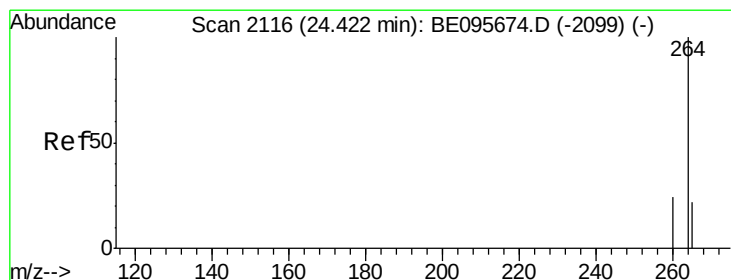
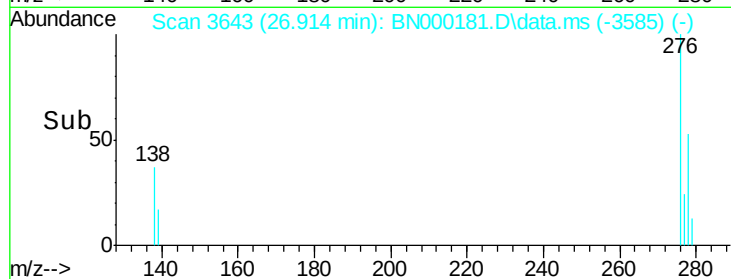
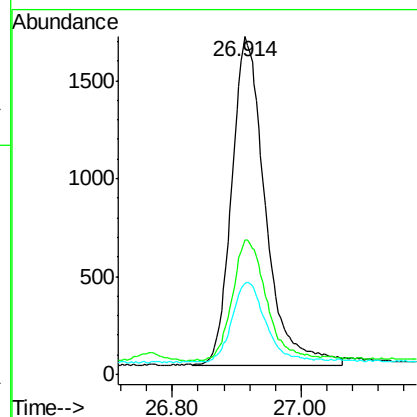
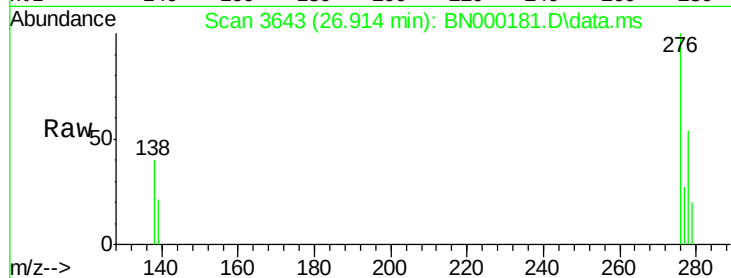
Ion	Ratio	Lower	Upper
149	100		
167	26.4	5.4	8.0#
279	3.0	0.7	1.1#





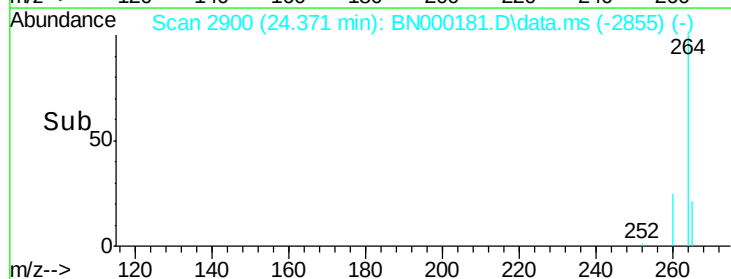
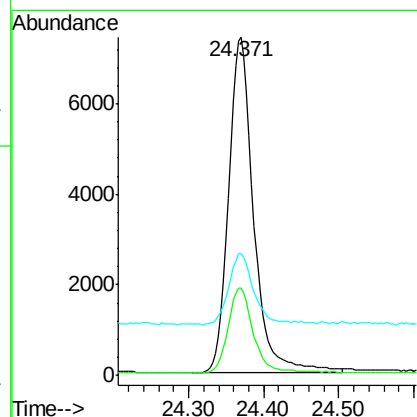
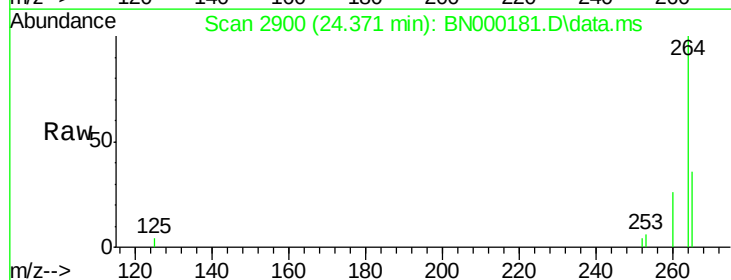
#33
 Indeno(1,2,3-cd)pyrene
 Concen: 0.09 ng
 RT: 26.914 min Scan# 3643
 Delta R.T. -0.000 min
 Lab File: BN000181.D
 Acq: 27 Feb 2018 09:16

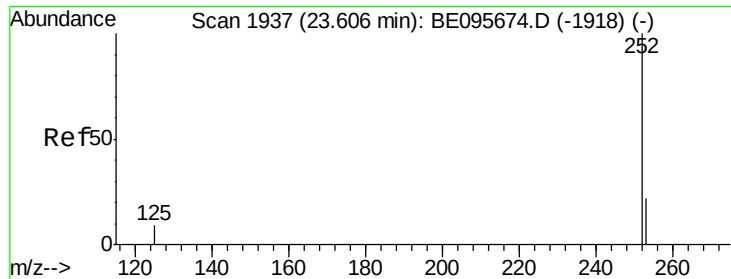
Tot Ion:276 Resp: 6104
 Ion Ratio Lower Upper
 276 100
 138 37.0 22.5 33.7#
 277 24.3 19.9 29.9



#34
 Perylene-d12
 Concen: 0.40 ng
 RT: 24.371 min Scan# 2900
 Delta R.T. 0.003 min
 Lab File: BN000181.D
 Acq: 27 Feb 2018 09:16

Tgt Ion:264 Resp: 16932
 Ion Ratio Lower Upper
 264 100
 260 25.8 20.5 30.7
 265 36.0 22.8 34.2#





#35

Benzo(b)fluoranthene

Concen: 0.12 ng

RT: 23.614 min Scan# 2679

Delta R.T. 0.003 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

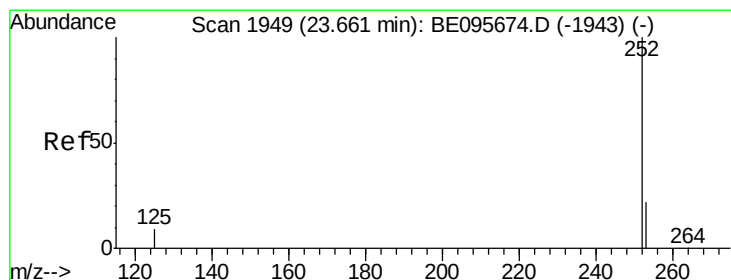
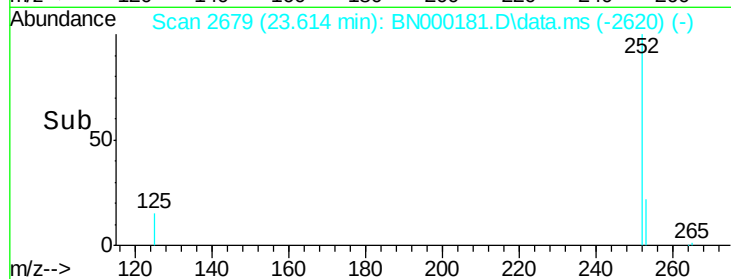
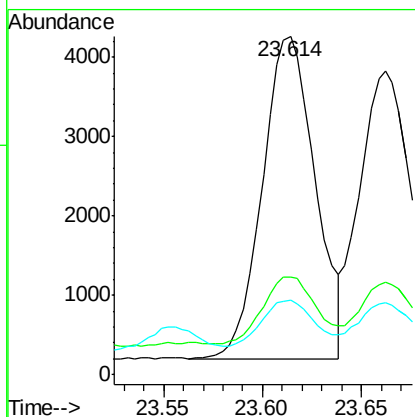
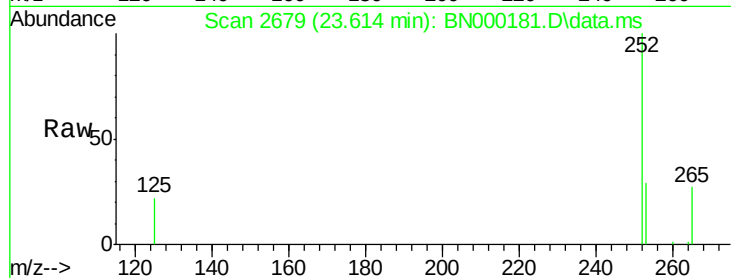
Tot Ion:252 Resp: 7538

Ion Ratio Lower Upper

252 100

253 28.8 20.0 30.0

125 22.1 16.0 24.0



#36

Benzo(k)fluoranthene

Concen: 0.11 ng

RT: 23.662 min Scan# 2693

Delta R.T. 0.003 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

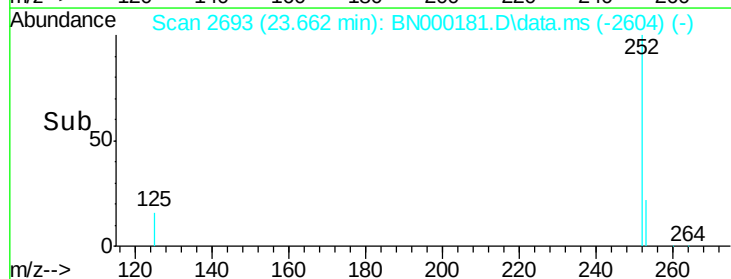
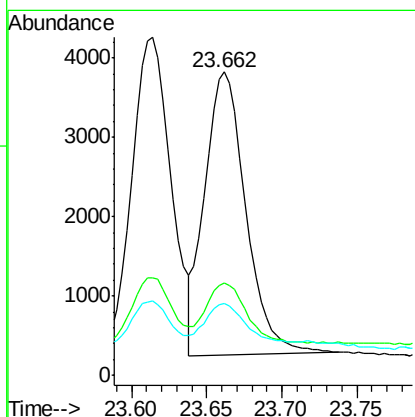
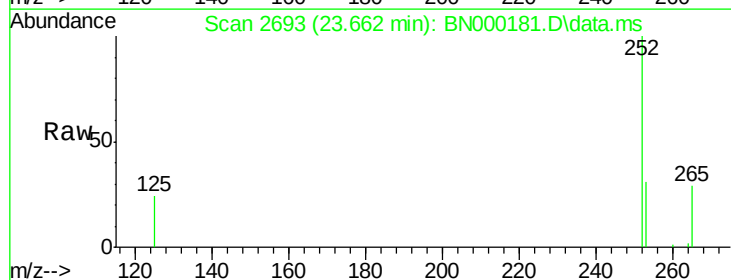
Tgt Ion:252 Resp: 6783

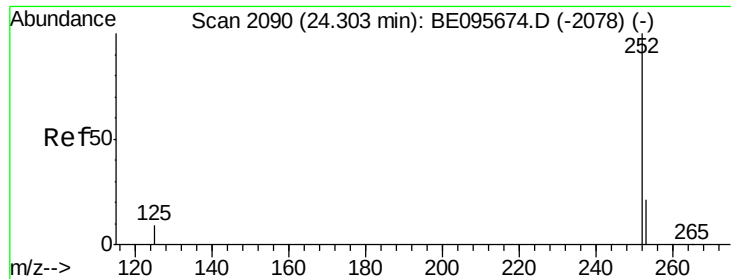
Ion Ratio Lower Upper

252 100

253 30.5 16.0 24.0#

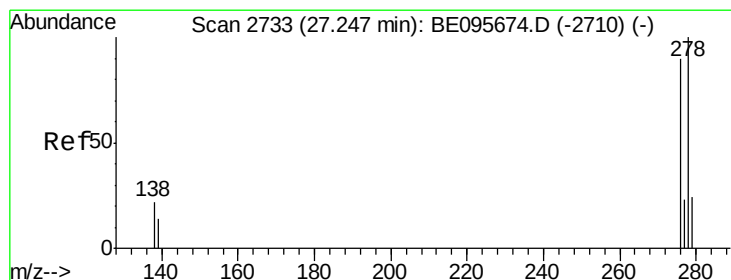
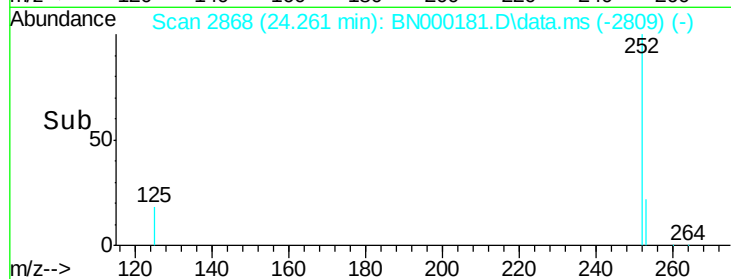
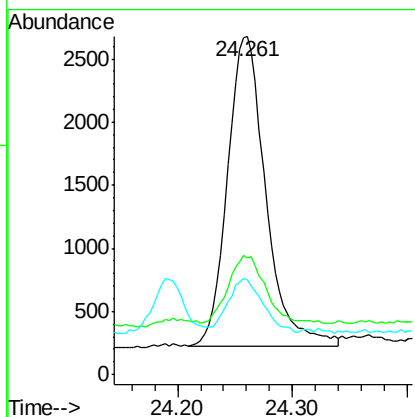
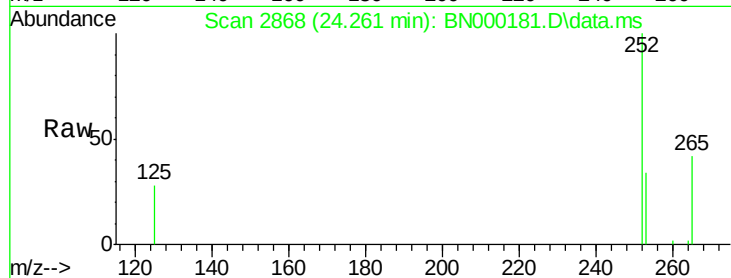
125 23.6 8.0 12.0#





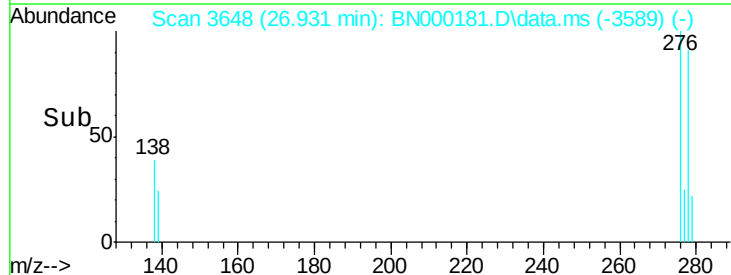
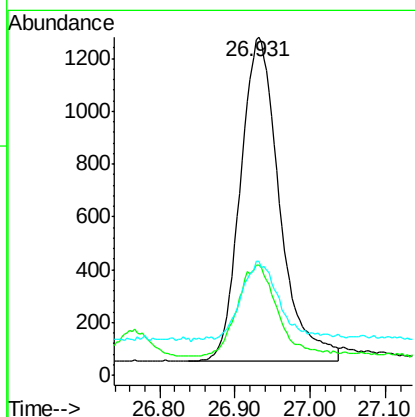
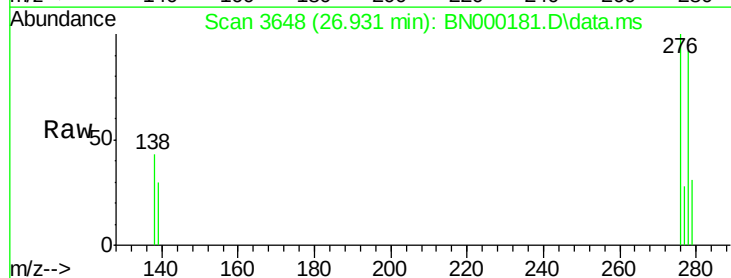
#37
Benzo(a)pyrene
Concen: 0.11 ng
RT: 24.261 min Scan# 2868
Delta R.T. 0.003 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

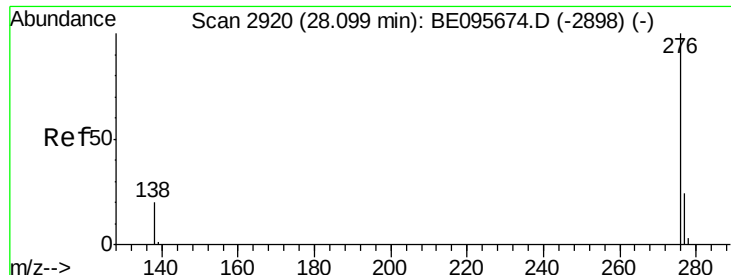
Tot Ion:252 Resp: 5709
Ion Ratio Lower Upper
252 100
253 34.4 16.0 24.0#
125 28.2 12.0 18.0#



#38
Dibenzo(a,h)anthracene
Concen: 0.09 ng
RT: 26.931 min Scan# 3648
Delta R.T. 0.003 min
Lab File: BN000181.D
Acq: 27 Feb 2018 09:16

Tgt Ion:278 Resp: 4354
Ion Ratio Lower Upper
278 100
139 32.7 16.0 24.0#
279 33.7 20.0 30.0#





#39

Benzo(a,h,i)perylene

Concen: 0.12 ng

RT: 27.701 min Scan# 3873

Delta R.T. -0.000 min

Lab File: BN000181.D

Acq: 27 Feb 2018 09:16

Tot Ion: 276 Resp: 6108

Ion Ratio Lower Upper

276 100

277 26.4 16.0 24.0#

138 37.0 20.0 30.0#

